

JOB OFFER – Positive Aviation – Structural Test Engineer

At **Positive Aviation**, we believe that aviation is a force for good for our society and our environment.

Positive Aviation was born based on two basic observations: civil protection authorities can perform in their mission to protect common and private assets, public health, nature and biodiversity only when equipped with the right means; and the iconic “Canadair” Super Scooper – a cornerstone of their firefighting activities – is no longer at the required level of reliability and availability.

Positive Aviation is an engineering and industrial company, developing and implementing modifications on second-hand ATR 72 transforming them into amphibious water scooper firefighter aircraft – the FF72. The pragmatic technical concept is based on proven technologies and combines the precious expertise of the aeronautical and the naval industries.

Starting with the FF72, Positive Aviation aims at being a key actor all along the aircraft lifecycle and companion to its operators.

Positive Aviation’s offices are located at the Toulouse Blagnac airport, inside the hangar H16. The H16 hosts Positive Aviation, the development plateau of the FF72 with its industrial partners and the assembly of the FF72-X1, a demonstrator that will make its first flight in early 2027.

Joining Positive Aviation means being part of the creation of a unique European seaplane design office, and living the adventure of a new aircraft development which will enter into service in 2029.

At Positive Aviation, we favor team work towards pragmatic and realistic solutions, and are proud to build on the rich aeronautical and naval legacy to **protect what is dear**.

About The Role:

Part of the Engineering team, you will be accountable for defining, organizing, and executing structural test campaigns (static, fatigue, dynamic, and environmental) at coupon, component, and full-scale aircraft levels. You will achieve this by setting up testing requirements, managing external testing partners, supervising test execution, and correlating physical test data with structural numerical models.

In detail, you will:

- **Test Definition & Strategy:** Define structural testing policies, test requirements, and the structural testing pyramid (coupons, sub-components, full-scale test articles) in line with EASA CS-25 certification requirements.
- **Test Setup & Tooling:** Specify test benches, loading rigs, actuation systems, and instrumentation requirements (strain gauges, DIC - Digital Image Correlation, load cells, accelerometers) in collaboration with internal teams and external test centers.
- **Execution & Monitoring:** Supervise structural static, fatigue, dynamic, and drop/impact tests; review real-time test data and ensure test article integrity and safety during operations.
- **Data Reduction & Correlation:** Process and analyze test measurements, correlate experimental results with structural analysis models (GFEM/DFEM) alongside the structural sizing team, and identify potential discrepancies.
- **Supplier & Partner Management:** Interface with external test laboratories, sub-contractors, and equipment suppliers to manage test schedules, budgets, and technical deliverables.
- **Certification & Documentation:** Write test plans, test procedures, test reports, and compliance documentation for internal stakeholders and certification authorities (EASA).

About You:

- **Experience:** Strong background in aerospace engineering with significant hands-on experience in structural physical testing (static, fatigue, vibration, impact) for metallic and composite aerostructures.
- **Instrumentation & Tools:** Proven expertise in data acquisition systems (DAQ), sensor technology (strain gauges, LVDT, DIC), and test control systems. Good programming skills (Python, MATLAB) for data processing and analysis automation are required.
- **Structural Analysis Knowledge:** Solid understanding of structural mechanics, FEM principles, and fatigue & damage tolerance concepts to effectively collaborate with sizing engineers.
- **Communication:** Ability to produce clear, concise, and rigorous technical documentation, test plans, and certification reports in English.
- **Soft Skills & Mindset:** Autonomous, pragmatic, hands-on, curious, and willing to work in a colocated, collaborative team environment. Driven by a passion for aeronautics and eager to learn and grow in a fast-paced scale-up setting.

Overview of Key Responsibilities & Capabilities

Pôle d'intervention	Activités Principales	Livrables & Outils
Spécification & Préparation des Essais	Définition de la pyramide d'essais, rédaction des spécifications de bancs, instrumentation (jauges, DIC) et outillages.	Spécifications d'essais (Test Specifications), schéma d'instrumentation, plans de charges.

Pôle d'intervention	Activités Principales	Livrables & Outils
Supervision & Exploitation	Pilotage des essais physiques (statiques, fatigue, chocs), dépouillement des données d'acquisition et analyse des défaillances.	Bases de données d'essais, scripts de dépouillement (Python/MATLAB), rapports d'essais (Test Reports).
Corrélation & Certification EASA	Corrélation des résultats physiques avec les modèles éléments finis (GFEM/DFEM) et rédaction des dossiers de preuve CS-25.	Rapports de corrélation essais/calculs, dossiers de justification pour la certification (EASA).

If you want to live the adventure of a new aircraft development, be part of a team of passionate experts, and evolve in a pioneering and flexible environment where care and hunger for growth are celebrated, join us!

Positive Aviation is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, sex, gender, sexual orientation, age, color, religion, national origin, protected veteran status or on the basis of disability.

Feeling inspired and wanting to apply, send your CV and motivation letter to **career@positive-aviation.com**, we get back to you shortly.