

INTERNSHIP - Positive Aviation - Sensitivity study of the handling qualities of a floatplane to the floats length

4 to 6 months internship. Function: Industrial Engineering & Design. Start date: April 2025. Location: Rue Gabriel Clerc, 31700 Blagnac, France. Teleworking not authorized. Required level of study: Master, MSc or Grande Ecole Program.

The FF72 is a firefighter scooper aircraft derived from the ATR 72, designed and manufactured in France, capable of meeting the need to replace the Canadair fleet from 2028 with a modern aircraft and improved performance.

The FF72-X1 project aims at developing the know-how and skills of a seaplane design office in France, through the manufacturing and flight testing of an ATR 72 demonstrator on floats.

The intern will participate in enriching the knowledge base of the Positive Aviation design office on float length by:

- Writing a state of the art on the geometric characteristics of floatplanes.
- Studying the configuration of the FF72 and the envelope of float geometries possible according to the rules of the art.
- Proposing a scientific approach based on modeling, simulation and/or testing to explore this design space.
- Identifying opportunities to reduce the length of the floats, particularly the length of the afterbody, as well as the associated prerequisites and consequences (tolerance to sea state, stability, etc.).

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