



## INTERNSHIP 2021 S2 –Eco-design of HSTOL aircraft

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### Avions Mauboussin

Creator of the Corsaire and the Fouga Magister, Pierre Mauboussin represented the spirit of French innovation which is now rising to the challenge of tomorrow's sustainable mobility. Reviving this mythical brand, David Gallezot and his teams are building on his heritage to design the next generation of clean, silent ultra-short take-off and landing aircraft, powered by hydrogen (HSTOL) : Alérion M1h - tandem two-seater & Alcyon M3c - regional multi-engine six-seater.

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### Job description

In our office located in Belfort, you will assist the Technical Director in evaluating the ecological benefits of Alérion M1h & Alcyon M3c for the manufacturer, owners, and operators:

1. Perform the ecological impact assessment of building Avions Mauboussin plant at Belfort airfield ;
  2. Evaluate the ecological impact of manufacturing the aircraft and compare it to traditional ones (metal or artificial composite airframe, piston engine, small turboprop);
  3. Evaluate the ecological impact of operating the aircraft and compare it to traditional ones (fuel consumption, CO2 emission, noise, land use shift...);
  4. Identify partners companies, processes, technologies, or operating modes to lessen the ecological impact from raw material extraction to recycling ;
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### Skills and qualifications

You are in final year of an engineering school, in 2<sup>nd</sup> year of Master or in a gap year with a specialization related to aeronautics or eco-design. You are familiar with lifecycle assessments, carbon footprint or environmental impact analysis. You are autonomous and show a strong interest for sustainable aeronautics. A pilot license or an experience in amateur aircraft building is appreciated.

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### Location and duration

From October 2021, 5-6 months internship.

Located in Belfort, Bourgogne-Franche-Comté, France.

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### How to apply ?

Send your CV and cover letter written in French or English to :

David GALLEZOT, david.gallezot@avionsmauboussin.fr, +33 (0) 6 58 03 75 55

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