



## INTERNSHIP 2022 – Computation of the external aerodynamics for a hybrid two-seater STOL 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 takeoff and landing aircraft. Alérion M1h: light tandem two-seater Alcyon M3c: hybrid regional multi-engine six-seater.

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### Job description

In our office located in Belfort, you will assist the aerodynamics engineer in the design of the two-seater Alérion. Your main tasks are:

1. Computation of the wing polar with finite volume code OpenFOAM. Comparison with lifting-line code MachUpX
2. Evaluation of the wing polar in ground effect
3. Improvement of a in-house Python package dedicated to aircraft design
4. Performance and flying qualities computations

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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. You are familiar with Python or Matlab. You know how to set-up a numerical simulation. You are autonomous and show a strong interest for aeronautics. A pilot license or an experience in amateur aircraft building is appreciated.

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### Location and duration

From March 2022, 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:

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