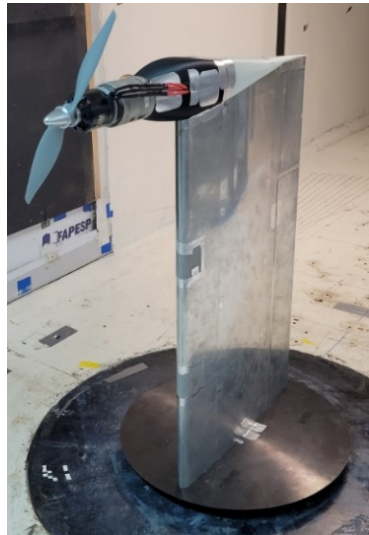
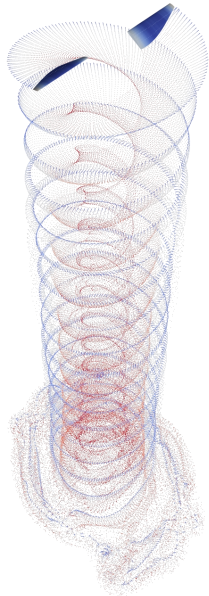


Aeroacoustic Investigation of Distributed Propulsion Platforms



Objectives. The research goal is to assess the Aerodynamic and Aeroacoustic characteristics of wings with Distributed Propulsion features, including leading-edge propellers and wingtip-mounted propellers. This configuration poses many challenges as propeller-propeller and propeller-wing interactions are both expected to influence aerodynamic forces and noise levels. The applicant may work with the following fronts:

- Experimental investigation through wind-tunnel testing of the distributed propulsion wing model;
- And/or Computational study of low/mid fidelity simulation softwares, which will be then compared with experimental test data.

Extra information.

- Scholarship ensured for an expected duration of 2 years on full-time commitment.
- The research is conducted as part of a partnership with Embraer, which requires weekly meetings with Embraer's engineering teams.
- Please be aware of the application deadlines for the Graduate Program in Mechanical Engineering, but feel free to contact us before the application for more specific details.

Application. Please contact hernan@sc.usp.br/catalano@sc.usp.br with attached CV and academic transcripts.