



Pr **Jean-Charles MARE**

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Proposal of engineer / research engineer position
in System level modelling and simulation of power-by-wire actuators
at Institut Clément Ader laboratory, Toulouse

Join us and contribute to a research project dealing with new equipment and systems for future aircrafts, in close collaboration with industry!

Context

The Institut Clément Ader (ICA, www.institut-clement-ader.org), a public French laboratory, is engaged in several research projects in very close collaboration with industry. One of these projects deals with the system-level modelling of electromechanical actuators for flight controls and landing gears of regional aircrafts. The project is funded by the European Community in the frame of the CleanSky2 initiative. It involves industrial partners from Italy (Leonardo, Magnaghi, Umbra) and France (Certia) with the collaboration of University of Torino. ICA is in charge of developing real-time and high fidelity models for flight control and landing gear electromechanical actuators (typically an inverter, a BLDC motor, a mechanical transmission). ICA also contributes to tasks relative to control and health monitoring. Due to the very close collaboration with partners, short missions (1 to 2 days) will occur to Paris and Naples (Italy).

Educational profile: Master or PhD in motors and drives, electromechanics, systems, aerospace, modelling and simulation

Starting date: July 1, 2017

Duration: 12 month, potentially extended to 30 month

Location: Institut Clément Ader, 4 rue Caroline Aigle, 31 Toulouse, France

Salary: from 1650 € to 2100 € net/month according to degree and experience.

Expected skills and experience: Ability to work in team and to communicate in English (Italian is also welcome). Rigour, criticism and motivation. Experience in system-level modelling and simulation and in electric drives.

Direction: Pr J-C. MARE

Application: Send 2 files to jean-charles.mare@insa-toulouse.fr no later than **June 1, 2017**

- one pdf file for the curriculum vitae, titled `name_surname_cvPbW_yearmonthday.pdf` (e.g. `martin_petter_cvPbW_20170206.pdf`)
- one pdf file for a letter of motivation, titled `name_surname_lmPbW_yearmonthday.pdf` (e.g. `martin_petter_lmPbW_20170206.pdf`)

Pr J-Charles MARE, 03 May 2017