

Robotics Engineer Position

Laboratory of digital sciences of Nantes

LS2N

(Laboratoire des Sciences du Numérique de Nantes)

Centrale Nantes

The ARMEN team at the Digital Sciences Laboratory (LS2N) of Centrale Nantes is hiring a research engineer in robotics for activities related to multi-UAV systems. The candidate will work on a regional project (project RAPID, 2018-2021) dealing with heterogeneous aerial robot formations.

Activities

The engineer will be in charge of the hardware and software development and implementation for controlling and managing several UAVs (mainly quadrotors) available at LS2N. The main activities are:

- Participation in the development of the simulation/experimentation framework for multi-drones in the team
- Implementation of control algorithms for single quadrotors, formations of multiple quadrotors and/or other multi-rotors (example: hexarotors)
- Integration of sensors (primarily cameras) on UAV platforms
- Performing basic mechanical and electrical maintenance on the UAV platforms
- Technical support for students and researchers working on UAVs in the team
- Writing technical reports

Skills and requirements

The candidate should have a strong background in software engineering (C/C++).

- Good knowledge and experience implementing control and estimation algorithms for robots are expected.

- The ability to effectively manage a project, work as a team and a strong interest in experiments are necessary.

The applicant should be proficient in C++ and ROS under LINUX environment and its development tools. Python and Matlab/Simulink are a plus.

A Master of Science and/or engineer degree in robotics, control, or computer science is required.

A good level of written/spoken English is required for interacting with the team.

Position starting date

Full-time in Autumn 2019 for 12 months

Applications

Documents to be provided and to send before the **20th of June** to :

Isabelle Fantoni (isabelle.fantoni@hds.utc.fr)

Abdelhamid Chriette (abdelhamid.chriette@ls2n.fr)

- Curriculum Vitae
- Transcripts
- Other documents that may enrich the application (letters of recommendation, referees, contacts, etc.).