Position Postdoc or Engineer:

**Project: Hexarotor endowed with native stable vision**

This project aims at realizing a demonstrator that meets the challenges raised by the exploration of narrow and confined spaces with micro aerial vehicles: (i) high maneuverability and precision while maintaining level the camera field-of-view, and (ii) exploration and return to the base station using only on-board sensors. To obtain the sought capabilities the project will investigate several advanced techniques, in particular:

- a fully-actuated hexarotor with advanced control laws,
- bio-inspired sensors and minimalistic processing to develop onboard low-drift localization and full autonomy capabilities in the absence of external localization system and communication, as well as in dim-light conditions.

![Figure 1:](image)


**Duration:** 18 months + extension  
**Funding:** DGA/ANR-funded project: the French Defense procurement and technology agency -DGA- request to hire people from the EU or CH.  
**Net salary:** from €1500/month net depending on the professional experience

**Required profile:**
- Knowledge in Control Theory, Electronics and Computer Science  
- Taste for experimentation,  
- Very good level of English (written and oral), TOEIC > 850.

**Please send a CV and cover letter to:** Franck RUFFIER, Cnrs Research Director, ISM : franck.ruffier@univ-amu.fr

**References:**

