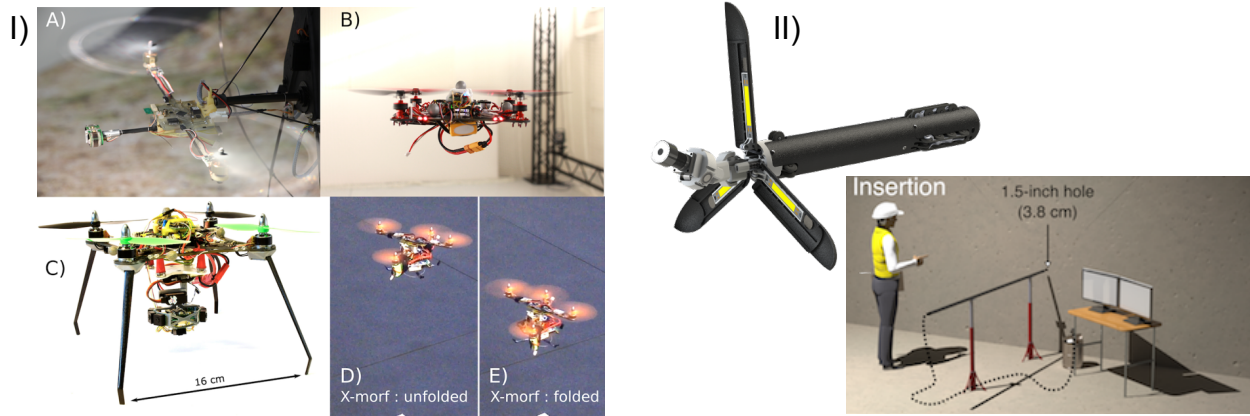


## 18-month Postdoc position: Insertable micro-aerial robot



I) Aerial Robots designed at ISM Biorobotics  
(CNRS – Aix Marseille Univ)

II) Minimally invasive robot concept by  
Inria-Nancy and ISM Biorobotics

We are collaborating with the HIP institute (*ScanPyramids* mission) and Inria Nancy (J.-B. Mouret) to open new avenues for archeology and in particular, novel robotic approaches for cavity exploration. The objective of this project is to develop an insertable micro aerial robot for minimally invasive exploration.

The Postdoc will work *on the configuration & control of the insertable micro-aerial robot* OR *on the bio-inspired navigation of the flying robot*, depending on the background of the candidate and on the current state of the project.

### About the project:

ISM Biorobotics (CNRS – Aix Marseille Université) : <https://www.biorobotics.eu>

Details of the project (press release): [https://members.loria.fr/JBMouret/pdf/press\\_release\\_blimp.pdf](https://members.loria.fr/JBMouret/pdf/press_release_blimp.pdf)

INRIA Nancy: <https://members.loria.fr/JBMouret/archeo.html>

HIP Institute: <http://www.hip.institute/>

### 18-month contract:

Postdoc under 3 years of professional experience => Net salary: 1 982,94 € (monthly gross salary 2 466,38 €)

Experienced postdoc (at least 3 years of prof. experience) => Net salary: 2 324,42 € (monthly gross salary 2 891,12 €)

### Responsibilities:

- Search and develop innovative robotics solutions for different requirements of the robot,
- Evaluate the robot performance, by making prototypes combining different sensory methods.

### Useful skills:

- Good knowledge in Advanced control strategies for aerial robot,
- Good knowledge in micro-sensors for aerial robots,
- Good knowledge in mechatronics,
- General electronic knowledge,
- Arduino programming.

### Typical profile:

- PhD and Journal Publications in aerial robotics,
- Proactive,
- Meticulous and exigent (soldering, assembling small parts),
- Good communication skills in English.

**Please send CV and cover letter by email with subject entitled [ScanPyramids Postdoc] to:**

Franck Ruffier, Cnrs Research Scientist HDR, [franck.ruffier@univ-amu.fr](mailto:franck.ruffier@univ-amu.fr),

[www.ism.univ-amu.fr/ruffier](http://www.ism.univ-amu.fr/ruffier)