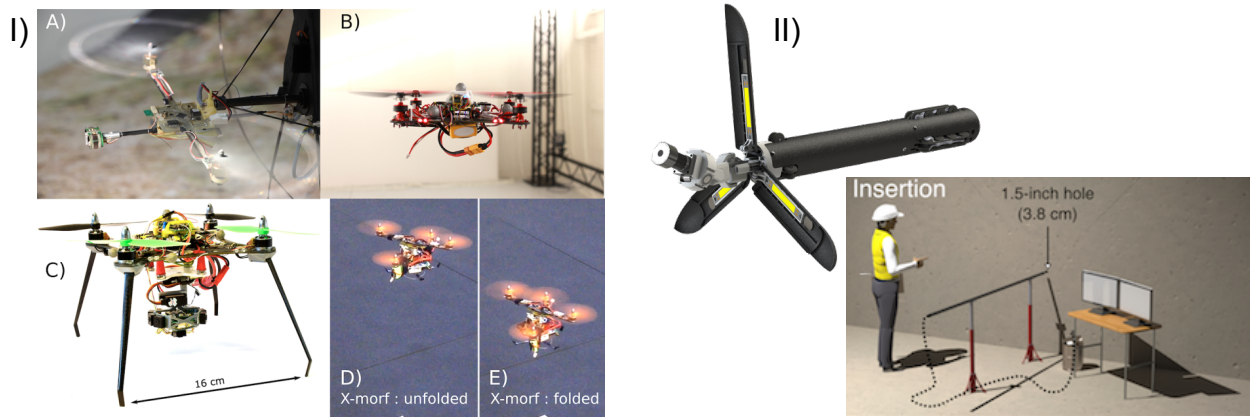


PhD position: Insertable micro-aerial robot



*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 PhD is to develop an insertable micro aerial robot for minimally invasive exploration.

The PhD 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.

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

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

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

Net salary: 1460€ per month (3-years contract)

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:

- Master 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 PhD] to:

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www.ism.univ-amu.fr/ruffier