
Project
ATLAS is an Innovative Training Network - European Joint Doctorate project, funded under the Marie Skłodowska-Curie grant agreement N. 813782.

This four year network will recruit outstanding candidates and allow them to master the different competences needed in the field of flexible robotics and intraluminal navigation, and establish a long term program of training to answer the need of experts in this field.

In order to autonomously steer flexible instruments through complex and fragile lumens, ATLAS’ research objectives involve step-changes in all essential aspects of surgical robotics:

- stretching limits of actuation to distributed, precisely controllable, compliant mechanisms;
- to distributed sensing, featuring proprioception of the own complex shape with exteroception;
- real-time reconstructed models of the complex geometry and episode in the surgical workflow;
- distributed control over the interaction with the lumen and cognition to act in this fragile context;

The project will target use-cases that belong to the following disciplines:

- Colonoscopy and Gastroscopy
- Uretroscopy
- Endovascular catheterization

A strong connection with hospitals and practitioners is foreseen, as well as a close collaboration with high tech companies and research institute in the field (see Partner Organizations).

The beneficiary network is composed of 7 universities:

- KU Leuven (Belgium, coordinator)
- Sant'Anna School of Advanced Studies (Italy)
- University Of Verona (Italy)
- Polytechnic of Milan (Italy)
- University of Strasbourg (France)
- Delft University of Technology (The Netherlands)
- Polytechnic University of Catalonia (Spain)

Please refer to [atlas-itn.eu/we-are-hiring/vacancies](http://atlas-itn.eu/we-are-hiring/vacancies).
Profile
Please refer to the Job description here:
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Interested?
For General information, please contact Mr. Gianni Borghesan, mail: gianni.borghesan@kuleuven.be
For Specific information on the ESR project, please contact the supervisors indicated in the vacancy description.

You can apply for this job no later than April 15, 2019 via the online application tool
KU Leuven seeks to foster an environment where all talents can flourish, regardless of gender, age, cultural background, nationality or impairments. If you have any questions relating to accessibility or support, please contact us at diversiteit.HR@kuleuven.be.