

PhD Position in the Department of Control Engineering and System Analysis

A PhD position is open in the Department of Control Engineering and System Analysis of ULB for a young graduate with a master degree in Engineering Science. The successful applicant will work in the framework of a research project funded by the Walloon Region and the EU. The project aims at developing high performance electromechanical actuators to be used for reusable launchers. It is part of a WIN4EXCELLENCE programme involving 30 PhD students and dealing with innovative tools for earth observation and reusable launchers.

Job description

Your research will aim at developing monitoring systems able to characterize the state of health of an electromechanical actuator (EMA) in situ. Any malfunction should be detected and identified, in order to take an appropriate remedial action before a new launch. Test data from an industrial partner will be used to support the research. The methodology is expected to use data-based (machine learning) and model-based approaches.

Requirements

- You hold a master degree in Engineering Sciences and you have a good background in control engineering, dynamic system modelling, electrical machines and mechanics.
- You have an excellent command of English both for oral and written communication.
- You have a strong interest for multidisciplinary research, and hence for interacting with researchers from different backgrounds.
- You are interested in both theoretical and experimental work.

We offer

- A dynamic, friendly and stimulating work environment,
- A yearly researcher salary of approximately 68 k€ (gross salary)

Starting date for the position: between July 1 and September 1, 2023

How to apply?

The applicants should send a single pdf document including the following items:

- a letter of motivation
 - a detailed CV
 - a summary of their master thesis (this can cover on-going work if the thesis is not finished yet)
 - e-mail address and phone number of two reference persons who can provide information regarding their abilities for research
- to Professor Michel KINNAERT (michel.kinnaert@ulb.be) by May 1, 2023.

Any additional information regarding this position can be obtained at the same e-mail address.