



Research Engineer at Microsys Laboratory - University of Liege [ref: ResEng_1]

Microsys laboratory description

Microsys (www.microsys.ulg.ac.be) conducts inter-disciplinary research in the following cutting-edge fields:

- Exploratory research on micro-assembly, interconnection methods and packaging, including techniques for harsh environment and biocompatible systems
- Exploratory research on MEMS sensors, including simulation, design and characterization
- Path finding research on energy harvesting
- Design of ultra-low-power microsystems using components off-the-shelf, from packaged to bare dies

Job summary

Microsys is looking for a Research Engineer to reinforce its team. The candidate will mainly work on a Feder project starting in January 2018 whose aim is to develop microstructured chemical reactors enabling process intensification. Within this scope, Microsys main task will be to design, implement and test the control electronics of the reactor. This involves sensors and actuators integration, electronic boards design and miniaturization, regulation algorithms development, interconnection and packaging of the system etc.

As a member of a multidisciplinary team, the candidate will both beneficiate from the support of other team members in their specific fields and have to give support to them in his predilection fields. Furthermore, as a member of a research laboratory, scientific dissemination of the results through journal articles writing and conferences participation is expected.

Job requirement

In order to perform intended tasks, the candidate will already have knowledge in several of the following fields:

- o board level electronics circuit design (analog and digital), including related CAD software
- o embedded software development (C)
- o regulation algorithms
- o micro-assembly, interconnection and packaging methods
- o miniature sensors and actuators integration, including related mechanical CAD software

The ideal candidate will have the following profile:

- Master degree or PhD in Applied Sciences or Engineering (preferably with electrical or electromechanical engineering specialization).
- Fresh graduates are encouraged to apply, possibility for a PhD degree program enrollment.
- English proficiency both written and verbal skills are mandatory. French proficiency is an asset.
- Candidates need to have work eligibility in Belgium.

We offer

A challenging position in a high-tech environment and in an international, interdisciplinary team. The salary is competitive and added with additional benefits (meal vouchers, insurance). It will take experience into account.

Furthermore, ULg offers various training possibilities and social services, such as a university restaurant, and discounts in different sport clubs and shops.

Interested?

Please send CV and cover letter to Francois Dupont fff.dupont@ulg.ac.be and Prof. Michael Kraft m.kraft@ulg.ac.be.