



Research Engineer at Microsys Laboratory - University of Liege [ref: ResEng_2]

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 the development of motional energy harvesting systems (either from vibration, impact or displacement). Microsys has developed a significant expertise in this field, especially based on an innovative electro-mechanical patented system. The tasks will mainly consist in the design of the energy harvester from a mechanical perspective, along with its integration for specific applications. The design of the electronic power management unit, which collects and stores the energy, will also be part of the work.

As a member of a multidisciplinary team, the candidate will both benefit 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 energy harvesting systems
- o small scale mechanical system design, including related CAD software
- o board level electronics circuit design, including related CAD software
- o low-power electronics
- o micro-assembly, interconnection and packaging methods

The ideal candidate will have the following profile:

- Master degree or PhD in Applied Sciences or Engineering (preferably with electromechanical, electrical or physical 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.