

PhD / Engineer Position

Start Date: 1 February 2018 (earliest)

Job posting date: 1 Oct 2017

Duration: 3 years

Deadline: Until filled

We are a spin-off company from ETH Zurich focused on magnetic materials and magnetic-based force sensors with applications on sports and health wearable devices. In collaboration with ETH Zurich, we are looking for a motivated candidate to work on our research and development projects and take challenges to bring the latest research into market. The candidate will pursue a PhD degree at ETH Zurich while working in a dynamic startup environment. The position is offered within the framework of H2020 Innovative Training Network project mCBEEs.

Requirements

- In the last two years the candidate cannot have pursued his or her main activity (including studies) in Switzerland for more than 12 months. This is a strict requirement.
- Masters degree in Mechanical Eng. / Electrical Eng. / Materials Science / Physics or similar discipline
- Fluent in English, both written and spoken
- Willingness to pursue PhD while working in a company environment
- Good team-work skills
- Experience and know-how in the following topics (higher matching is a plus)
 - Programming (MATLAB/Python, C, C++) and source code management
 - FEM (Comsol, ANSYS)
 - Microfabrication / Characterization and testing of microsystems
 - Control systems/state estimation
 - Magnetic materials and systems
- Willingness to make short stays in participating EU countries for performing research activities at other companies or universities up to 1-2 months a year.

Tasks

- The candidate will be enrolled in the PhD program of ETH Zurich's Multi Scale Robotics Lab.
- The candidate will contribute to a current research projects on 3D force sensors and magnetic MEMS.
- Research on magnetic systems and development of new sensors
- Writing scientific papers
- Responsibilities at the company for characterizing and testing products, development of new products
- Opportunity to gain industry experience in the research and development team

Contact Information

For more information and applications send your CV, recommendations and motivation letter (max 1 page) jobs@magnes.ch .