

Postdoctoral position in the Department of Control Engineering of “Université libre de Bruxelles” (ULB)

A one year postdoctoral position is open on the project entitled “Optimization and monitoring of environmentally friendly battery packs”, subsidized by the Belgian National Fund for Scientific Research. The project involves a strong collaboration between the control engineering department of ULB and the Nanomaterials, Catalysis, Electrochemistry (NCE) Group of University of Liège (ULiège). It aims at developing safer, long lasting and environmentally friendly lithium ion batteries for use in stationary storage applications.

For more information about ongoing projects in the Department of Control Engineering of ULB please have a look at <https://saas.ulb.ac.be/>

Job description

Your research will aim at mathematical modelling, identification and optimization of a new type of lithium-ion batteries, in order to improve battery performance by appropriate sizing. You will work in close cooperation with other members of the groups at ULB and ULiège to be able to account for all electrochemical and technical constraints in the statement of the identification and the optimization problems.

Requirements

- You hold a PhD degree in degree in dynamic system modelling and identification, Li-ion battery modelling and supervision or a related topic.
- You can perform autonomous research in the indicated area in cooperation with experts in electrochemistry.
- You have an excellent command of English both for oral and written communication.
- You are in the conditions of international mobility, namely
 1. you have not worked or resided in Belgium for more than 24 months in the last 3 years;
 2. you will not have obtained your PhD diploma more than 6 years ago at the time of hiring (see below).

We offer

- A dynamic, friendly and stimulating work environment,
- A 12 month appointment period,
- A monthly grant of 2500€ (net amount),
- Starting date: September 2022

How to apply?

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

- a letter of motivation
 - a detailed CV
 - a copy of their three main publications
 - e-mail address and phone number of two reference persons who can provide information regarding their abilities for research
 - a summary of their PhD thesis
- to Professor Michel KINNAERT (michel.kinnaert@ulb.ac.be) by August 15, 2022.

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