



## WORK OFFER

Ref. No. BE-2020-044VUB

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### Employer Information

**Employer:** Vrije Universiteit Brussel (VUB)  
Electric Engineering and Energy Technology (EETEC)  
Pleinlaan 2  
  
1050 Brussels  
Belgium

**Website:** <https://www.vub.be>

**Location of placement:** Vrije Universiteit Brussel (VUB)  
**Nearest airport:** Brussels  
**Working hours per week:** 35.0  
**Working hours per day:** 7.0

**Number of employees:** 70 (EETEC)  
**Business or products:** university

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### Student Required

**General Discipline:** 14C-ELECTRICAL AND ELECTRONICS  
ENGINEERING

**Completed years of study:** 3

**Field of Study:** 14.1001-Electrical and Electronics Engineering

**Student status requirements:** Student status during the entire internship is obligatory: please include a Certificate of Enrolment with the nomination.

**Language required:** English Excellent

**Required Knowledge and Experiences:**

programming (Matlab, Simulink, Python, other)  
Modelling (Labview, Matlab)

**Other requirements:**

team work  
willing to learn

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### Work Offered

**Battery Innovation Centre:**

The Battery Innovation Centre is active in the research and development of various rechargeable energy storage systems. The research area covers different aspects of batteries at different scales starting from small coin cells up to large battery packs. Through in-depth characterization supported by multiscale mathematical modelling, the Battery Innovation centre has been contributing significantly to the development process of rechargeable energy storage systems.

**Work description:**

Li-ion battery ageing is a very important research topic which is essential to understand battery lifetime behavior. It's a challenging task to analyze battery degradation behaviour as ageing investigation may require extensive battery test activities as well as intensive electrochemical analysis.

**Preferable aptitudes:**

Good knowledge of electrochemistry, electricity, electronics  
Good knowledge on modelling as well as programming techniques.  
Good communication skills in English (speaking and writing);  
Ability to work both in a team and independently while carrying out complex tasks;  
Ability to take initiative;  
A proactive attitude in the projects (s)he is involved;

**Number of weeks offered:** 6 - 52

**Working environment:** Research and development

**Within the months:** 01-MAY-2020 - 23-DEC-2020

**Gross pay:** 800 EUR / Month

**Or within:** -

**Deduction to be expected:** 0

**Company closed within:** -

**Payment method / time of first payment:** Bank Transfer /

**Latest possible start date:**

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### Accommodation

**Canteen at work:** Yes

**Expected type of accommodation:** Student dormitory

**Estimated cost of lodging:** 400 EUR / Month

**Accommodation will be arranged by:** IAESTE LC Brussels

**Estimated cost of living incl. lodging:** 800 EUR / Month

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### Additional Information

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### Nomination Information

**Deadline for nomination:** 15-MAR-2020

**Date:** 29-JAN-2020

**On behalf of receiving country:**

Annelies Vermeir