

**Publish date November 17th 2020**  
**Ref. 49/2020**

**Code: 963580**

**Project: Albatross**

**Area: Energy Efficiency in Systems, Buildings and Communities Area**

**Area leader:**

**Group: Energy Systems Analytics Group**

**Group leader: Dra. Cristina Corchero García**

#### **Ph.D. Student Position in Energy Systems Analytics**

The Group Leader of Energy Systems Analytics is seeking a PhD student to work on a the European Project Albatross, focusing on electric vehicle's battery State of Health estimation to determine the specific end of life of the batteries for each specific driver.

#### **Description:**

The transition towards the electrification of the automotive sector comes by the hand of a number of uncertainties. One of the major concerns for car manufacturers is the degradation of the battery and to determine when will they not be capable to fulfill the driver needs. As the battery degradation depends on the battery use and on the working temperature, this PhD student position aims to develop electric vehicle's battery State of Health estimation algorithm that considers different driving profiles and environmental conditions to determine the specific end of life of the batteries for each specific driver. This will be useful for both the correct functioning of the battery in the vehicle but also to prepare the battery for a possible re-use in second life applications with lesser requirements.

If you are interested in doing a PhD while working in recently awarded EU projects that focus on the development of new batteries for future electric vehicles, this is what you were searching for.

**Requirements:** Ph.D. student who is highly motivated to learn, work in a team, high flexibility and initiative and ability to innovate. Bachelor and master on Electrical, Energy Engineer or similar is required. Experience in EV batteries, data management, electromobility will be positively evaluated. Fluent English is mandatory.

**We offer:** Three years Ph.D student contract.

**Incorporation:** The candidates should be available at January 2020.

**Workplace:** Barcelona

Applicants should send a detailed CV, a motivation letter and bachelor/master transcript to [irecjobs@irec.cat](mailto:irecjobs@irec.cat). Please indicate the reference number in the e-mail.