Exciting Faraday Undergraduate Summer Experience (FUSE) paid internship opportunities for summer 2024.

Studying a STEM degree? Wondering what career to pursue? Interested in finding out more about the battery sector? Keen to spend time with a dynamic community of pioneering battery researchers seeking to find solutions to support a fully electric future?

The Faraday Institution is offering a total of 55 internships, for undergraduate students to spend 8-weeks working on battery related projects.

Project title: Exploring TAP900@Fe Single Atom Catalysts for Enhanced Lithium-Sulfur Battery Performance

Project description:

Lithium-sulfur (Li-S) batteries exhibit promising energy storage potential due to their high capacity and sulfur's abundance. However, challenges like poor conductivity and the shuttle effect persist. Leveraging single atom catalysts, particularly TAP900@Fe known for its remarkable performance in fuel cells, this project aims to explore its efficacy in Li-S batteries. This investigation not only seeks an alternative catalyst but also aims to enhance the understanding of sulfur reactions within the battery. Employing techniques such as coin cell testing and rotating disk electrode analysis, we intend to unravel the intricate electrochemical processes involved. This comprehensive approach contributes to advancing Li-S battery technology, addressing critical challenges, and fostering sustainable energy solutions.

Supervisor: Professor Magda Titirici and Dr. Mengjun Gong

University: Imperial College London

Location: ***In-Person,London***

Start date: The internship is a full-time role for 8 weeks during June - September

Eligibility:

- Be registered full-time undergraduate student from a UK university.
- Undertake the internship within the years of their undergraduate study (i.e., not in final year or during a subsequent Masters' programme).
- Not have been a FUSE intern in a previous year

Funding:

A salary of £12.00/ hour across the UK or £13.15 / hour in London will be provided. This will be determined by the working address of the appointee, not the university's location. The funding is provided by the Faraday Institution.

Additional activities:

During the FUSE internship you will be able to attend Faraday Institution cohort events which will focus on a variety of topics to further develop your understanding of career opportunities in battery sector. At the end of the programme, you will be invited to to share a poster about your work and prizes will be awarded.

Application:

In order to apply for a Faraday Undergraduate Summer Experience (FUSE) 2024 internship, you need to complete this survey (link) by 23.59 19th April 2024.

Diversity:

The Faraday Institution is committed to creating a dynamic and diverse pool of talent for the fields of battery technology and energy storage.

You can read Imperial College's full Equality, Diversity and Inclusion strategy here:

Equality, Diversity and Inclusion Strategy 2024