

**Exciting [Faraday Undergraduate Summer Experience \(FUSE\)](#) paid internship opportunities for summer 2022.**

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 56 internships, for undergraduate students to spend 8 weeks working on battery related projects.

**Project title:** Rate of singlet oxygen reaction with carbonate solvents

**Project description:**

During operation nickel-rich electrodes are known to undergo oxygen (including reactive singlet oxygen) release and degradation. This can contribute to formation of a cathode electrolyte interphase and detrimental loss in capacity. Understanding the reactions that lead to this interphase formation is critical if we are to avoid its formation. In this study, the mechanism and rates of singlet oxygen reaction with various carbonate solvents will be investigated.

**Supervisor:** Lee Johnson

**University:** University of Nottingham

**Location:** In-person, lab-based

**Start date:** The internship is a full-time role for 8 weeks during June – September 2022.

**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 £9.90 / hour will be provided. The funding is provided by the [Faraday Institution](#).

**Additional activities:**

During the FUSE internship you will be able to attend Faraday Masterclasses and 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 share a poster about your work and prizes will be awarded.

**Application:**

In order to apply for a Faraday Undergraduate Summer Experience (FUSE) 2022 internship, you need to send a CV and brief cover letter to [lee.johnson@nottingham.ac.uk](mailto:lee.johnson@nottingham.ac.uk) by 5pm on the 29<sup>th</sup> of April 2022.

**Diversity:**

The Faraday Institution is committed to creating a dynamic and diverse pool of talent for the fields of battery technology and energy storage. The University of Nottingham has always been a supportive, inclusive, caring and positive community. We warmly welcome those of different cultures, ethnicities and beliefs – indeed this very diversity is vital to our success, it is fundamental to our values and enriches life on campus.