



**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:** Impedance measurements of thin film cathodes

**Project description:**

This project will explore the use of electrochemical impedance measurements to study the ionic conductivity of thin-film Ni-rich cathodes. The project will be primarily modelling focused and build on prior work developing software to control the electrochemical impedance measurements. This will involve expanding on existing python based software to allow for automated control of the measurement gas and other measurement configurations.

**Supervisor:** Siân Dutton and Judith Driscoll

**University:** University of Cambridge

**Location:** *in person, Departments of Physics and Materials Science, University of Cambridge*

**Start date:** The internship is a full-time role for 8 weeks Flexible start, project will run for 8 consecutive weeks within July-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 £9.90 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 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 *complete the online application form by Friday 1<sup>st</sup> April* (<https://forms.office.com/r/6JzXMdW8vW>). *Review of applications will commence on Monday 4<sup>th</sup> April.*

**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 Cambridge is committed in its pursuit of academic excellence to equality of opportunity and to a pro-active and inclusive approach to equality, which supports and encourages all under-represented groups, promotes an inclusive culture, and values diversity. This commitment is underpinned by the University's core values, expressed in its mission statement:

- Freedom of thought and expression.
- Freedom from discrimination.