

**Exciting [Faraday Undergraduate Summer Experience \(FUSE\)](#) paid internship opportunities for summer 2026.**

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 48 internships, for undergraduate students to spend 8-week working on battery related projects.

**Project title:** A pressure-monitoring-based diagnostic approach to understand battery gassing

**Project description:**

Lithium-ion batteries can generate gas during cycling and storage, which may lead to cell swelling, performance degradation, and safety concerns. Temperature strongly affects electrolyte decomposition and interfacial reactions, but systematic experimental comparisons across practical temperature ranges remain limited.

In this project, the student will investigate battery gas evolution using a gas platform combined with GC-MS analysis. The work will include: (i) laboratory induction and safety training; (ii) assembling and commissioning the experimental setup; (iii) preparing and testing cells, including preliminary validation of system integrity, sealing, and measurement stability; (iv) carrying out electrochemical tests at different temperatures to collect gas composition and pressure signal; (v) basic data processing and visualisation to compare gas-evolution trends across temperatures.

The project will provide hands-on experience in battery testing, pressure monitoring, gas analysis, and scientific data handling. At the end of the internship, the student will prepare a scientific poster and short presentation summarising the results. No prior experience in battery research or gas analysis is required, although relevant GC-MS/pressure sensor research experience would be beneficial.

**Supervisor:** *Dr Jingwen Weng, Prof Gregory Offer*

**University:** *Imperial College London*

**Location:** *In person, South Kensington, London*

**Start date:** The internship is a full-time role for 8 weeks. Start from the end of June.

**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 £11.44/ 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 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 fill in the survey below:



**Application deadline: April 26<sup>th</sup> 2026**

*Please also complete this [survey](#) so we can keep you informed about future Faraday opportunities, including other FUSE internships that may need additional support with recruitment.*

**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 more about Imperial's commitment to Equality, Diversity and Inclusion here:  
<https://www.imperial.ac.uk/equality>

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