

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-weeks working on battery related projects.

Project title:

Exploring the Chemistry Behind Efficient Battery Formation

Project description:

This project offers a unique opportunity for an undergraduate student to gain hands-on experience in cutting-edge lithium-ion battery research, with a focus on improving manufacturing efficiency, cell lifetime, and safety. The formation process, during which protective interphases develop inside the battery, is a major cost and energy bottleneck in production, yet remains poorly understood at a fundamental level. In this project, the student will investigate Structure-Activity Relationships (SARs) of battery electrolytes by measuring gas evolution during cell formation using both chemical and electrochemical testing. Gas generation will be quantified using pressure reactors and online mass spectrometry, enabling informed links between electrolyte reactivity and cell performance. This multidisciplinary project integrates concepts from physical and organic chemistry with hands-on experience in device development and industrially relevant battery processes. Through this work, the student will develop practical laboratory skills in electrolyte design and preparation, gas analysis, and battery testing, while gaining insight into how fundamental chemistry underpins large-scale battery manufacturing for the clean energy transition.

Supervisor: Prof. Lee Johnson & Dr Kieran Jones

University: University of Nottingham

Location: The internship is a full-time in-person role located at the University of Nottingham Jubilee Campus working in the GSK Carbon Neutral Laboratory & Research Acceleration Demonstration Building where you will join the [Nottingham Applied Materials & Interfaces](#) (NAMI) group.

Start date: The internship is a full-time role for 8 weeks to be completed between 1st June and the 29th August 2026.

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 £13.45/ hour across the UK or £14.80/ 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) 2026 internship, you need to complete and submit the [Application Form](#) by **28th April 1700 BST** and send your CV (max 2 page, Font 11 pt Arial) to Dr Kieran Jones with “FUSE 2026 – FAST - [Applicant Initials]” as the subject. Shortlisted candidates will be invited to a virtual interview within the week following the deadline.

Informal enquiries can be made to Prof. Lee Johnson (Lee.Johnson@nottingham.ac.uk) or Dr Kieran Jones (Kieran.Jones1@nottingham.ac.uk)

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.

Details on the University of Nottingham policies can be found at the following link:

[UoN Equality, Diversity and Inclusion – Policies and Information](#)