

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: Seeing batteries at work: connecting X-ray insights with charge–discharge behaviour

Project description: Understanding why batteries lose their ability to store and deliver energy requires probing materials during operation to reveal degradation processes. Advanced X-ray techniques enable scientists to “look inside” working batteries, but they generate large, complex datasets that are often poorly aligned with electrochemical measurements, limiting insight and slowing progress.

This project addresses this challenge by developing digital tools to synchronise X-ray data with battery cycling measurements. Accurate alignment will enable clearer links between material changes and performance. The work integrates advanced X-ray diffraction and absorption data with timestamped cycling data from industrially relevant pouch cells developed at Warwick, helping translate fundamental insights into practical, high-performance battery technologies.

The applicant will gain hands-on training in battery testing, large-scale data analysis, and experimental workflow optimisation through script development—skills directly transferable to the battery industry.

Learning objectives:

- 1) Develop the ability to link material changes to battery performance.
Gain practical experience in connecting X-ray measurements collected during battery operation with charge–discharge data, enabling a clear understanding of how material-level changes influence real battery behaviour.
- 2) Build skills in handling and analysing large, complex battery datasets.
Learn to manage, synchronise, and analyse large datasets generated from operando X-ray experiments and electrochemical testing, developing robust data-handling and digital analysis skills relevant to modern battery research and industry.
- 3) Acquire hands-on experience with industrially relevant battery cells and testing methods.
Gain training in testing and analysing unmodified, industry-quality pouch cells, developing practical knowledge of battery operation, experimental optimisation, and data interpretation that is directly transferable to the battery sector.

Supervisor: Galo J. Paez Fajardo

University: University of Warwick, WMG

Location: in-person program in Coventry, UK

Start date: The internship is a full-time role for 8 weeks to start during June 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 share a poster about your work and prizes will be awarded.

Application:

- In order to apply for FUSE 2026 internship, please send your CV (2-page maximum) and a brief letter (half a page) describing how this internship will help your career to **galo.paez-fajardo@warwick.ac.uk** with 'FUSE 2026 – LEAP' as the subject on or before April 24th, 2026. Shortlisted candidates will be invited to a virtual interview in the week following the deadline.
- Please complete the short Faraday Institution [survey](#) that would allow the organisation to keep you informed about *future Faraday opportunities, including* relevant webinars this summer and *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.

Warwick is committed to building an organisation of mutual respect and dignity, promoting a welcoming, diverse, and inclusive working and learning environment. We recognise that everyone is different in a variety of visible and non-visible ways, and that those differences are to be recognised, respected, and valued. Where possible, we go beyond legislation to provide a place where everyone can thrive, supporting all staff to achieve their full potential. We aspire to remove economic, social, and cultural barriers that may otherwise prevent people from succeeding.

We therefore welcome and encourage applications from all communities regardless of culture, background, age, disability, sex/gender, gender identity or expression, ethnicity, religion/belief, or sexual or romantic orientation. To find out more about our social inclusion work at Warwick visit our webpages [here](#).

The University currently holds a Race Equality Charter Bronze Award, Athena Swan Silver Award and a Disability Smart Bronze Award. The University of Warwick is also one of the six founder institutions of the EUTOPIA European University Alliance.