

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: FUSE Outreach – Electric Car resource for Secondary Schools

Project description:

- Build a working model of an electric car, to be used in a classroom where students can assess the parameters of the battery, and see what happens at different speeds and how this affects the battery temperature/capacity. The importance of lithium-ion chemistry will be highlighted by comparing its performance, weight and total energy with that of alkaline batteries
- Develop a lesson plan and resources around the electric car session such as videos featuring researchers to give students an idea of the issues surrounding batteries for electric vehicles, and how ongoing battery cathode development at the Faraday is tackling these issues

We'll be looking for:

- An enthusiastic person with some hands-on experience with electronics/mechanics
- Experience of outreach with young people/children would be good to have!
- A willingness to learn more about batteries and battery research

Supervisors:

Dr Laura Wheatcroft (Postdoctoral researcher, Materials Science & Engineering Dept)

Mrs Elinor Noble (FutureCat Project Administrator)

Max Yan (PGR Researcher, Chemical & Biological Engineering Dept)

University: University of Sheffield

Location: Hybrid – some work can be remote, the build of the electric car will be based at the University of Sheffield

Start date: The internship is a full-time role for 8 weeks during June – September 2022, Start Date 1 June with some flexibility.

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 across the UK or £11.05 / 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 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 our [application form](#) – **Monday 4th April 2022**.



We will then hold informal interviews (online) for the shortlisted candidates.

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 Sheffield is an Equal Opportunity Employer. The following statement, relating to staff, has been approved by the University Council:

The University of Sheffield, in accordance with the general intention of its Charter, confirms its commitment to a comprehensive policy of equal opportunities in employment in which individuals are selected and treated on the basis of their relevant merits and abilities and are given Equal Opportunities within the University.

The aim of this policy is to ensure that no job applicant or employee should receive less favourable treatment on any grounds not relevant to good employment practice. The University is committed to a programme of action to make this policy fully effective.

It is the University's policy as an employer to treat all people with dignity and respect, equally irrespective of any of the protected characteristics as defined by the Equality Act 2010. The protected characteristics are

- *age*
- *disability including mental health*
- *gender re-assignment*
- *marriage and civil partnership*
- *pregnancy and maternity*
- *race*
- *religion or belief*
- *sex and sexual orientation*

The University will not tolerate discrimination against employees on any of these grounds. The University's policy on the recruitment and employment of ex-offenders will also be taken into account.