



Exciting [Faraday Undergraduate Summer Experience \(FUSE\)](#) paid internship opportunities for summer 2024.

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 55 internships, for undergraduate students working on battery related projects.

The Electrochemical Innovation Lab at UCL will host one intern placement within the SAFEBATT project.

Project title: Exploring the Application of Acoustic Techniques to Improve Battery Safety

Project description:

Ensuring battery safety is one of the most important factors when developing systems for electric vehicles. To ensure the safe operation of batteries diagnostic techniques can be deployed, to track the behavior and provide a fingerprint of the current state of health of a system. These techniques can include thermal and electrical characterisation, however over the last few years acoustic tools have increasingly been deployed. Acoustic spectroscopy enables scientists to listen to the processes, which occur in a battery during operation and identify abnormal behavior, which can predict the early degradation or ultimately the failure of a cell. The FUSE intern, supported by researchers at UCL, will support existing research attempting to develop a comprehensive understanding of the

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A salary of £12.00/ 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