

Faraday Undergraduate Summer Experience (FUSE) internships in the NAMI group

Summer studentships are available to work on lithium-sulfur batteries as part of the Faraday Institution LiStar project. The candidate will work within the Nottingham Applied Materials and Interfaces Group at the University of Nottingham, reporting to Dr Darren Walsh, Dr Lee Johnson, and Dr Graham Newton (<https://www.thenamilab.com>). The Li-S battery is very promising for our future energy-storage requirements, as it has the potential to exceed the specific energy of the lithium-ion battery. However, the performance of the battery is limited due to incomplete conversion of sulfur and low rate capability. These projects will focus on understanding the role of polysulfides in the battery.

The Faraday Institution is the UK's independent institute for electrochemical energy storage science and technology, supporting research, training, and analysis. We bring together scientists and industry partners on research projects to reduce battery cost, weight, and volume, to improve performance and reliability, and to develop whole-life strategies from mining to recycling to second use.

See <https://faraday.ac.uk/opportunities/summer-internships/> for more information.

LiSTAR, Lithium-Sulfur Technology Accelerator The University of Nottingham will work alongside five other university partners and seven industrial partners to enable rapid improvements in Li-S technologies by generating new knowledge, materials and engineering solutions, thanks to its dual focus on fundamental research at material and cell level, and an improved approach to system engineering.

See <https://www.listar.ac.uk/> for more information.

Eligibility - In order to partake in the project you must be a full-time registered undergraduate student at a UK university and undertake the internship within the years of undergraduate study (that is, not currently be in the final year of your degree programme).

Role - This is a lab-based role hosted at the University of Nottingham, Nottingham, UK. The successful applicant will be required to attend 8 weeks of in person lab work at the University of Nottingham's Jubilee campus.

Funding - A salary of £9.50/hour will be provided. The internship is a full-time role for 8 weeks, beginning in early July 2021. The funding is provided by The Faraday Institution.

How to Apply - To apply for this internship, please send your CV and a brief cover letter to darren.walsh@nottingham.ac.uk, before 5 pm on May 10th 2021.