Technical Deep-dive Intern – Role Description

Are you interested in understanding how technology, markets and policy interact in the real world? Do you enjoy working with data and reports to communicate about science clearly? If so, join the Faraday Institution as a Technical Deep-dive Intern. This is an excellent opportunity for someone looking to gain experience in the battery industry or policy analysis space, and to work on outputs describing the latest developments in battery technology.

The Faraday Institution

The Faraday Institution is the UK's independent institute for electrochemical energy storage research, skills development, market analysis and early-stage commercialisation. Our mission is to make significant scientific breakthroughs in battery technology research in the global race to promote electrification across both transport and energy sectors. We manage large research programmes across more than 27 UK universities involving 500 researchers and 148 UK industry partners. You would be joining a small but vibrant head office team. We are based at the Harwell Science and Innovation Campus in Oxfordshire.

The Faraday Institution provides an independent, evidence-based understanding of the key barriers facing the development of next-generation battery technologies through commissioned studies and publications. The aim is to bridge knowledge gaps across industry, academia and government.

Roles and Responsibilities

The Faraday Institution is launching a series of Transformational Challenges that are designed to target energy storage applications where only conceptual ideas and early-stage research currently exist. They aim to unlock breakthrough science and solutions for a range of sectors. The Faraday Institution is looking to hire a Technical Deep-dive Intern who will be responsible for the drafting of technical papers outlining the key challenges facing the next-generation battery technologies being researched as part of the Transformational Challenge portfolio. These papers will cover three key areas: research challenges, potential addressable market, and existing research programmes (both academic and commercial) investigating these technologies.

To be successful / personal skills

Interns will work closely with our Policy and Analysis team in shaping these deep-dives, and will clearly communicate where these technologies are today.

- Providing input on the format for the technical deep-dive papers covering three key sections: research challenges, potential addressable market, and existing research programmes investigating these technologies;
- Helping outline the key problems of technologies within the Transformational Challenges portfolio, and existing strategies being used to address them. This will include searching through existing scientific literature and open-source publications;
- Conducting an analysis of the landscape for emerging battery technologies part of the Transformational Challenges portfolio, systematically documenting relevant activity across academia and industry (where publicly available) to identify gaps, risks, and opportunities;
- Outline at a high level the potential addressable markets for the technologies in question;
- Collect and organise data on the development of the battery technologies part of the Transformational Challenge portfolio;
- Support the rewriting and editing of technical content; and
- Assist with internal review and version control.

This role offers a dynamic environment to apply analytical skills, gain practical experience, and contribute to cutting-edge research initiatives, fostering both personal and professional growth. The role would report to and work closely with the Principal Analyst. It would suit a resilient and confident individual who can operate largely under their own initiative and who thrives on working in a fast-paced environment.

A successful candidate would:

- Have a first degree (or be working towards a first degree) in a scientific or engineering discipline (desired but not essential);
- Have an interest in batteries, energy systems, or industrial decarbonisation;
- Have an understanding and an awareness of different battery technologies;
- Have strong data analysis skills with the ability to interpret complex data sets;
- Have excellent communication skills (written & verbal) and can articulate findings clearly;
- Have strong organisational skills with the ability to prioritise tasks; and
- Have a detail-oriented with a proactive approach to problem-solving.

Specifics:

- Location – mostly remote with ideally at least 1 day per week in the FIHQ office in Harwell. Opportunities to meet the FIHQ team and researchers in person.
- Salary £13.45/hr or £14.80/hr if living in London. Paid monthly.
- Internship is for 8 to 10 weeks with a flexible start date, which could be in either June, July or August. Commitment of 37.5 hours per week with some flexibility for discussion.
- A laptop will be provided.
- Need to be living in the UK, enrolled as an undergraduate or postgraduate at a UK university, and be eligible to work in the UK.
- Apply by completing the application form and jobs@faraday.ac.uk by 4th May 2026.

The Faraday Institution is committed to building a diverse and inclusive community and to being an equal opportunity employer. We welcome applications from all sections of the community.

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