

Mechanical Design Engineering Internship

- Cell Testing & Product Design

Cognition Energy is an innovative and disruptive engineering start-up that uses science informed approach to develop to deliver high performance battery products and services. At Cognition we develop unique battery test equipment - CellPods - and carry out contract testing for external clients. Cognition's long term goal is to help the world switch to a 100% renewable future!

This is an exciting opportunity for a Mechanical Engineering student to run an engineering project from start to finish for a real world problem. You will, under the guidance of our multidisciplinary engineering team, create a fully functional product that will revolutionise the way we test cells at Cognition. The ideal candidate will be able to work autonomously in a fast paced environment. Have a strong work ethic and operate well under pressure.

What you'll have:

- A Bachelor's in Mechanical Engineering or be partially through your degree
 - Ideally working towards a Masters
- Strong computer aided design and analysis (preferably Solidworks)
- The ability to pick up new skills quickly and communicate well within the team

What you'll do:

The Problem

As Li-ion battery packs are being adopted in so many more industries, the requirement for easy, repeatable and reliable cell testing is only going to grow. Currently the equipment used for connecting cells to cell cyclers is clunky, difficult to use and expensive.

The Task

Create a bespoke system, using some of Cognition's unique designs to integrate into any thermal chamber that will increase the quality and usability of cell fixtures. The perfect solution will be one that is optimised for mass manufacture, ergonomic for users and produces repeatable and reliable results.

Your day to day:

- Spend time in the battery lab working with our test engineers
 - Supporting the testing of cells and really understanding what the requirements for high quality cell tests are
- Finding the pain points when using the off the shelf cell fixtures
- Developing a set of requirements, then building concepts and prototypes, before moving to a final design that you build and test
- Creating and managing your own project timeline to deliver the prototype cell fixture

What you'll get:

- To join a team of motivated engineers, in a great work environment
- Salary of £25,000 pro rata, equating to £12/hr
- Friday BBQ's & team lunches
- The opportunity to make a lasting impact
 - Potentially receive a permanent job offer upon completion of your degree or in the future

Location:

Cognition's office and labs are based in a beautiful countryside setting, with free parking, just outside Didcot, Oxfordshire. Local amenities include local shops, a pub and easy access to the A34.

Additional Information

- 2 months, fixed term contract as a Faraday Institution sponsored FUSE intern with the option to extend to 3 months.
 - Monday - Friday on site work
 - 9am - 5pm or 8am - 4pm (flexible)
 - 40hrs per week (including lunch & breaks)
- Visa sponsorship **not** available
- To apply please email your CV & Cover Letter to jobs@cognitionenergy.uk
- Applications deadline is: 06 May 2022
- Company Website: <https://cognition.energy/>