

GLA Green New Deal Funded Internships

Olwg

About the company

Olwg is a London-based clean energy data visualisation, analytics and application developer creating affordable web-based tools to allow quick decision aiding the energy transition challenge.

Based on a 40-year leadership team combined global experience in planning and developing energy projects, Olwg has created an innovative toolkit of self-serve digital tools including industry analytic visualisations and project lifecycle simulators. Olwg modern approach to engineering helps accelerate low carbon developments in a cost-effective manner for both public and private organisations.

About the role

We are looking for a purpose-driven chemical / energy engineer to help our climate-action startup expand our suite of energy project screening tools. These models are designed to assist project developers & investors to draw clear comparisons between competing decarbonisation projects that have complex + uncertain features. The ideas/ algorithms developed for the models will be consumed by data scientists / software developers, so collaborating on data source + end use will be a feature of this role. We also need help maintaining our engineering library data in a central 'single source of truth' that is secure, remotely-accessible and easy to maintain + analyse.

There are likely to be opportunities to participate in and learn from flagship energy transition developments in UK and possibly overseas.

The expected role and responsibilities can be summarised as:

- Researching technical engineering design features, maturity, trends, risks & opportunities for clean energy technologies (such as solar PV, wind, marine tidal, waste -> energy) and carbon capture, use & storage (CCUS) technologies.
- Creating models for estimating equipment sizing/ internal utility & energy consumption for such clean energy technologies across a range of scales (from domestic to large industrial) and environmental locations (onshore, offshore, global) to help assess their suitability against alternative concepts.
- Helping to research and create models for system carbon emissions, lifecycle carbon intensity, lifecycle costs & economics, and marginal abatement cost curves (MACC);
- Helping to find the most efficient ways of researching technical source data, through maximizing the use of existing/ open-source information.

About the intern

- **The intern must be a registered student (either undergraduate or postgraduate) at any university whilst undertaking the internship (the course end date cannot occur before the internship has been completed).**
- The candidate should be studying for a degree in chemical/ energy engineering or equivalent, with a demonstrated interest and academic study experience in clean/ low-carbon energy developments. A track record showing a willingness to work and learn at every opportunity is essential, and previous work experience with industrial engineering / technology would be highly regarded. A mix of analytical data/ engineering modelling combined with practical judgement is preferred for this role. The ideal candidate would be quick to learn new skills, eager to keep learning more, and able to apply new learnings back into ongoing work.
- We are a B Corp 'Pending' company working towards the gold standard for ethical business - and consider that finding the right characters that can positively contribute to our diversity and capabilities, and that are a natural fit with our culture, is more important than finding a precise experience set (which can be learned later). We will recruit against a fit with our values.

Length of internship: We are proposing a 3-month full-time internship from September to November 2022. However we are flexible and mindful that individual study/ personal situations are different – so will consider applications based on different timings, durations and part-time patterns.

Remuneration: London Living Wage (£11.05 per hour)

To apply: please email your CV and a short cover email, detailing why you are suitable for the role, to info@olwg.co.uk and ccciinternships@imperial.ac.uk