

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 mathematical data-lover 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 to be used in the models will be supplied by other engineers, so collaborating on data source + end use will be a feature of this role. We also need help maintaining our Company 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:

- Analyse and distinguish between data patterns + noise, perform appropriate regressions and devise new metrics to describe the features of projects based on benchmark patterns.
- Develop coded programs for our energy system calculations / algorithms, including Monte-Carlo routines for stochastic simulation.
- Develop & maintain a secure + scalable relational database for our energy technology/ project data.
- Work with the web / cloud interface for the model inputs + outputs (by software engineer).
- Build tools to communicate with + analyse open energy APIs.
- Build tools to interrogate open-source data sets + mine the web for new information.
- Develop appropriate QA for the models – including assumptions, version control etc.
- Engage with broader cleantech community (e.g. ClimateAction.tech) to keep up to date with latest development / trends, and build links with local/ appropriate organisations that could be useful to collaborate with.
- Educate us on all things data science!

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 a data/computer science or AI/machine-learning discipline, with a demonstrated interest and experience in setting up AI experiments & curating open source / predicting new data. Must be able to describe or show examples of own work. Attention to detail with numbers and ability to communicate regarding problems with data, and the signal versus noise in observations, is essential. A track record showing a willingness to work and learn at every opportunity is essential, and previous work experience with industrial data wrangling/ coding/ engineering/ technology would be highly regarded.
- 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