Role title: Junior Data Scientist (for Google AI impact challenge)

Location: London Bridge, UK

Reporting to: Head of Power & Utilities

Start date: ASAP

Term: Six months fixed term with a view to extend to permanent

Organisation and role background
Carbon Tracker Initiative is an independent financial think tank that carries out in-depth analysis on the impact of the energy transition on capital markets and the potential investment in high-cost, carbon-intensive fossil fuels. We believe that financial markets, regulators, investors and policymakers all have an urgent role to play in guiding the world to a climate-secure energy system. Carbon Tracker’s analysis of unburnable carbon, stranded assets, and wasted capital has reframed the debate around climate change risk. Nowhere to Hide, Carbon Tracker’s ground-breaking report using satellite imagery to analyse power plants in China, is now being extended to include all power plants worldwide in collaboration with WattTime, WRI and Google. This role is for a Google AI impact challenge, which aims to apply AI for social good.

Role and responsibilities
- Build and maintain a machine learning framework that estimates power plant carbon emissions and is built on cutting-edge AI principles such as deep neural networks to understand a combination of inputs including satellite imagery, atmospheric chemistry datasets and real-time grid operations.
- Collaborate and solve problems with a diverse team of analysts, data scientists and project managers from Carbon Tracker, WattTime and Google.
- Execute sound judgement and critical thinking.
- Input into reports and presentations to disseminate model outputs.
- Work with project partners and team members to achieve project and company objectives.

Required experience
- Numerical degree (preferably a PhD) in computer science, physics, engineering, statistics or data science.
- 5-8 years of credible industry or educational experience in computer vision, machine learning or data science, including software development.
- Strong programming experience, ideally in Python or C/C++.
- Experience with convolutional neural networks, deep learning and satellite imagery.
- Experience or interest in working within a small and dynamic thinktank.
- Prior experience working with power grid, emissions and/or energy data is desirable.

Required Attributes
- Highly motivated, action orientated, a quick learner driven to grow the role and increase responsibilities
- Methodical with a high attention to detail.
- Team player, organised, meticulous, high integrity.
- Preferable passion and knowledge for the energy sector.
- Adept at learning new skills and collaborating with others.
- A passion and commitment to use AI for good.

Package
- GBP £35-40K, 7% pension contribution

Applicant information
- Please email your CV along WITH A COVERING LETTER explaining how you would fit into the team to careers@carbontracker.org and include the reference PU0006 within the email title
- Carbon Tracker can only consider candidates who are eligible to work in the UK
• We strive to ensure that opportunities to work and develop at Carbon Tracker are open to all. We welcome applications from all qualified applicants, regardless of age, disability, gender identity or gender expression, race, ethnicity, religion or belief, sex, sexual orientation or any other equality characteristic.
• Carbon Tracker supports flexibility
• The closing date for applications is Monday 9 September 2019.