Role Profile Summary

Title:	Head of Data Science
Reporting to:	CEO
Location:	Ideally located in the Connected Energy Head Office (Newcastle) but remote working may be considered

Role Description
As Head of Data Science, you will lead and build a small and dedicated team to develop tools and techniques for the optimisation of energy storage systems. A pioneer of the circular economy, Connected Energy is a world leader in providing and enabling the use of 2nd life electric vehicle batteries in commercial scale energy storage systems. These energy storage systems capture a wealth of rich raw data from a large range of battery packs. This data is validated to optimise the outputs of battery systems and predict future trends. By understanding our data and by embedding data skills into our organisation we have increased our ability to deliver the most efficient battery energy storage systems for customers, whilst supporting the circular economy. We are looking for an experienced data scientist to help continue our journey in this area and bring a knowledge and expertise that will enable us to create more customer value from the resources already embedded in the battery packs. Connected Energy works with a wide range of global automotive companies and utilities and we are scaling up our business and products in response to the growing availability of 2nd life batteries. Backed by global strategic investors Macquarie Bank, Engie New Ventures and Sumitomo Europe, Connected Energy has ambitious international growth plans and is keen to involve the brightest, most motivated people in achieving our objectives. Connected Energy has strong links with the universities of Newcastle (including the National Innovation Centre for Data), Warwick, Lancaster and East Anglia and is keen to further develop and capitalise on these relationships.

CONNECTED ENERGY Advanced Energy Storage Solutions

Responsibilities
• Define the requirements and lead the growth of our data science activities and team. • Liaise and collaborate with global partners to facilitate data capture methodologies and approaches to system optimisation. • Contribute to the design of machine learning tools for predicting and optimising the performance of battery packs. • Identify and interpret anomalies to develop our preventative maintenance plan. • Characterise operating profiles for system optimisation. • Assist in developing new and novel reporting modules. • Work with the wider Connected Energy team to commercialise the outputs of our data science activities through system, product and service development.

Skills and Requirements
Essential: • Masters or PhD in data science or related discipline (statistics, machine learning, computing science, mathematics etc.). • Experience working with large volumes of time series data. • Data collection, problem definition and experimental design. • Understanding of machine learning models and processes. • Ability to communicate findings to a full range of stakeholders both internal and external to Connected Energy. • Proficient with R and SQL. • A passion to be part of a growing cleantech SME and the diversity of opportunity and development that it offers. Desirable: • Experience with state space modelling, filtering and/or stochastic volatility modelling. • Strong interest in decarbonisation and climate change. • Understanding of battery technology and electricity mathematics/physics. • Experience with data management of cloud-based storage and databases.

Please send your CV and Covering letter to the email address info@c-e-int.com and state which Vacancy you are applying for.

Unfortunately, due to the volume of applications we receive, we are not always able to contact everyone, however if you are invited for an interview, you will be contacted directly by the manager for the position.