**Job Title**  **Data Engineer / Data Architecture**

**Department** **IT**

**What does the job entail**

The purpose of the Data engineering role is to be the driving visionary for Corona Energy’s technical and analytical capabilities to support the wider business in delivering its operational, strategic, and financial objectives. The role will focus on the expertise of data engineering practices but have the understanding to support data architecture principles to contribute to the evolution of our data ecosystem.

It is to bring about the modernisation in the way we collect, analyse, and use data within the business to support risk control, risk management, commercial decision making and deliver a better service for our customers who are both internal (CE team) and external (supply customers). The Data Engineer creates and maintains the data pipelines that take our data coming from multiple sources into a centralised location, with clean, relevant data for the organisations users which can be both data analysts, report developers and/or data / report users within the business.

**Duties & Responsibilities**

* Data Architecture
  + Collaborate with stakeholders to define and design data architecture solutions that support business requirements and long-term strategic goals.
  + Develop and maintain data models, data dictionaries, and documentation to ensure a clear understanding of the data architecture
  + Lead the design and selection of appropriate database technologies to support the organization's data needs.
  + Collaborate with database administrators, data engineers and data analysts to implement and optimize the data solution(s) across Corona
  + Design and document conceptual, logical, and physical data models that deliver business requirements and facilitate efficient data storage, retrieval, and analysis.
  + Implement best practices for data modelling and ensure consistency across the organization.
* Data Governance
  + Ensure compliance with data governance policies and standards.
  + Implement data quality checks and measures to maintain high-quality data
  + Enforce data governance policies and standards to ensure data quality, security, and compliance.
* Data Engineering
  + Collaborate with cross-functional teams to understand data requirements and implement solutions that meet business needs
  + Design, develop and maintain innovative solutions to facilitate efficiently extracting, transforming, and loading data from appropriate data sources using Microsoft Azure data management capabilities and make this data available to the business in a timely fashion in order to meet business requirements
  + Manage, monitor, and ensure the security and privacy of data to satisfy business needs
  + Solution design using Microsoft Cloud services and other tools
  + Ability to automate tasks and deploy production standard code (with unit testing, continuous integration, versioning etc.)
  + Identify, collect, organise and store required data
  + Collaborate with cross-functional teams to design, develop and implement risk analysis calculations to support risk management and risk control of Corona Energy’s energy market and Non-Commodity risk portfolio
  + Perform adhoc analysis on large data sets to support impact analysis and business decision making.
  + Promote, and whenever possible enforce, data engineering best practices in all implementations and through peer review
  + In conjunction with our Learning and Development Team, design and lead knowledge transfer sessions to support upskilling team and business in modern data handling and analytical software (e.g. SQL, Power BI)
* Any other reasonable duties as defined by management

**Skills & Experience**

* The ideal candidate will have expertise in data engineering good practices and a deep understanding of data architecture principles to contribute to the evolution of our data ecosystem.
* 5+ years of experience in a Data Engineering / Developer role
* Programming languages – SQL (essential), Python (desirable), C# (desirable)
* Databases – Azure SQL, Azure Synapse Analytics, SQL Server, Oracle
* Cloud platforms –Azure, AWS
* ERP solutions - Microsoft Dynamics (desirable)
* Practical experience with consuming data from and publishing data to SaaS applications via APIs
* Utilising data assets on-premises and in the cloud with Microsoft Azure capabilities, including Azure Synapse Analytics, Power BI, Power Automate/Flow)
* Azure Data Lake, Azure Synapse Analytics and Azure SQL Server
* Be passionate about data, analytics, and automation and work well in a team.
* Must have advanced skills and experience of SQL coding
* Must have good Excel skills and an ability to exploit VBA where required.
* Must have experience of database management and architecture
* Must have demonstrable experience in data handling, processing, manipulation, and analysis.
* High numeric competency and analytical skills with an eye for detail and accuracy.
* Excellent problem-solving skills
* Ability to handle complex issues and provide innovative solutions
* Able to organise their day to complete several tasks and willingness to get the job done
* Operates in an open, honest manner showing the utmost of integrity
* Willing to contribute to team discussions and debates, sharing their opinions in a constructive and collaborative manner
* Takes responsibility and ownership of completing work to required standard
* Takes responsibility for their actions and decisions, learning from them on the way
* Is proactive and curious
* Owns issues and their resolutions, helps others in achieving the same