



NEM Modelling Analyst

1414 Degrees is a South Australian company developing long-duration thermal storage technology that is needed to deliver secure renewable energy. Our subsidiary company, SiliconAurora is developing the Aurora Solar Energy Project which will demonstrate our unique TESS-GRID technology as a globally relevant hybrid renewable energy power plant with long-term financial viability.

We are seeking a knowledgeable, talented, and self-motivated individual to produce commercial models and forecasts that will assist 1414 Degrees to maximise revenues, demonstrate its energy technology, develop its Aurora projects, and assess new commercial opportunities. Models produced will underpin financing for a hybrid PV-BESS-TESS power plant at the Aurora Project, biogas engine-GAS-TESS hybrids, and assess new opportunities including hybrid BESS-TESS-CSP.

As a member of the Business Development team the role will initially report to the Chief Operating Officer.

The role requires an experienced and skilled analyst with practical knowledge of the Australian National Electricity Market (NEM), proven modelling and data skills, financial acumen, and strong communication skills.

Key responsibilities

- Developing in-house financial models of energy revenue forecasts for project opportunities, to inform commercialisation strategies and negotiation of commercial agreements
- Developing dynamic system models of 1414 Degrees technology particularly for optimising TESS-GRID design, operation with multiple generation assets and dispatch strategies for maximising revenue
- Supervising external consultants, to support timely and rigorous commercial modelling and analysis to inform strategic decision making
- Supporting a collaborative culture across the company's business development and engineering teams to identify and analyse new commercial opportunities that align with the company's strategic objectives
- Communicating modelling outputs and critical analysis of data in reports or presentations for internal and external audiences

Qualifications skills & experience required

- Tertiary qualifications in mathematics, finance, engineering, technology or other quantitative or technical fields
- Significant practical experience in Australian energy market financial modelling, trading, and regulation within the NEM
- Extensive experience with data modelling languages/software such as Matlab, Python, R, Scala and/or OpenModelica and working with numerical data including large data sets
- Strong problem solving and analytical skills with the ability to think 'big picture', interpret data and effectively communicate results for internal and external audiences
- Proven track record of delivering results and meeting deadlines

- Knowledge of non-linear optimisation and metaheuristic algorithms will be highly regarded

Appointment

Appointment to this role may be subject to pre-employment checks including:

- Criminal history
- Employment background
- Qualifications
- Right to work in Australia