# Energy 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 talented and self-motivated individual to produce commercial models, forecasts and analysis that will assist 1414 Degrees to demonstrate its energy technology, develop its Aurora projects and assess new commercial opportunities. As a member of the Business Development team the role will report to the Chief Operating Officer.

The role requires an experienced and skilled analyst with proven modelling and data skills, financial acumen, knowledge of the electricity market (NEM) and strong communication skills.

The role is offered initially as a 12-month fixed term contract with the potential to extend as the project progresses.

## 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
- 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
- Experience in Australian energy market financial modelling, trading, and regulation, preferably the NEM
- Strong problem solving and analytical skills with the ability to think 'big picture', interpret data and effectively communicate results
- Knowledge of non-linear optimisation and metaheuristic algorithms will be highly regarded
- Proven track record of delivering results and meeting deadlines

**Appointment**

Appointment to this role may be subject to pre-employment checks including:
- Criminal history
- Background and qualifications
- Right to work in Australia