The Company
Redback Technologies is a Brisbane based renewable energy startup engaged in the development of energy storage hardware and software technologies for domestic and markets. Check out more on our website: www.redbacktech.com

Project Overview
The Redback Technologies hybrid inverter enables storage of excess solar energy in the home, and the later use of that energy to power loads in the home. The inverter also enables the management of dispatchable loads in the home to take advantage of excess solar energy. The inverter is capable of trading energy between residences in situations where a number of inverters are located in an embedded network.

Redback Technologies will be installing an embedded network in conjunction with the University of Queensland at the Gatton campus. This project is to project manage the installation, and simulate and then verify the inverter electrical outputs, and their impact on grid stability and grid performance in the embedded network.

Alignment with Company Objectives
This project is aligned with the strategic direction of the company. Embedded network support is a big growth area of Redback Technologies.

Challenges Addressed
This project will dramatically bring forward the timeframes in which Redback Technologies can develop and demonstrate the capabilities of our inverters in an embedded network scenario.

Innovation
Storage in embedded networks is only now becoming a reality. If Redback Technologies can provide a well researched and tested solution in this space, it will become a market leader in the space.

Business Outcomes
Successful implementation of the embedded network project will provide a competitive edge to Redback Technologies in the global renewable energy / storage industry.

Project Feasibility
This project has well understood inputs and outputs, and the anticipated 12 month timeframe should be sufficient to design and implement the system, as well as monitor its’ output, and make changes to the inverter software as necessary to improve performance.

Key Skills required
- Bachelors or Masters degree in Electrical or Mechatronics Engineering
- Experience with and strong understanding of design of renewable energy installations.
- Experience with and understanding of the function of power electronics, in particular solar inverters.
- Solid foundation in software (embedded, OO)
- Excellent communication skills / Team working skills

Contact
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