

## Job Description

<b>Job Title:</b>	Reliability Engineer
<b>Reporting to:</b>	Director of Reliability Engineering
<b>Location:</b>	Redwood Shores, CA

### Role Summary:

In this position the candidate will be responsible for ensuring the outgoing quality and reliability performance of our products supported through systematic reduction, elimination and control of potential product and system failures. As a contributing member of the Product Development team, the Reliability Engineer creates and executes a Reliability Assurance Plan that enables the product to meet customer expectations and corporate goals for quality and reliability.

### Key Tasks & Responsibilities:

- Creates and executes a Development strategy for long-term reliability that includes:
  - Design for Reliability – Parts Management, Stress Analysis, Margin and Tolerance Analysis, FMEA, Fault-tree Analysis
  - Reliability Modeling, and
  - Reliability Verification/Improvement Testing – HALT, Life Test, and other reliability testing
- Accurately estimates project scope (schedule and resources required) associated with executing reliability strategies
- Develop requirements to screen infant mortality and workmanship defects for near-term quality including but not limited to Highly Accelerated Stress Screening (HASS)
- Actively participates in Design Reviews to assure reliability best practices are incorporated into the design
- Analyzes reliability test and field data and prepares reliability performance reports
- Drives reliability Improvement Programs
- Drives Corrective Action for failures
- Develops and executes qualification strategy for critical new parts and new manufacturers of those parts as well as manufacturing processes

### Skills & Experience Required:

#### *Essential*

- A Black Belt with strong, methodical, statistically-based problem-solving abilities
- Proficiency in computing reliability measures such as population distributions, failure rates, and MTBF
- Understanding of physics of failure for power devices, solder joints, and connections
- Requires effectively communicating with and influencing design team and customers
- Must be familiar with electronic-product operation, safety in use, and standard electrical test equipment
- Relies on experience and judgment to plan and accomplish goals
- Knowledgeable in reliability standards, concepts, and methods
- Able to present reliability strategy and techniques to multiple teams for adoption
- 3 to 5 years of relevant reliability support of design/development team

- Proven ability to methodically solve complex, technical issues

*Desirable*

- Certified Reliability Engineer
- Degree in a relevant engineering discipline
- Published work in reliability technical journals or similar publications

### **About Enecsys**

Enecsys Limited, develops, manufacturers, and markets world-leading, highly reliable, grid-connected solar micro inverters and monitoring systems for residential and commercial photovoltaic systems that offer an outstanding value proposition. The micro inverter maximizes energy harvest and converts the DC power from each solar module into quality AC power for supply to the electricity grid.

The advantages of Enecsys solar micro inverters include: maximized energy harvest, improved safety, increased lifetime and reliability, enhanced performance monitoring, and simplified PV array design and installation. The monitoring system tracks, in real-time, the performance of each solar module and transmits the information through a robust built-in wireless communication system that connects to the Internet.

Headquartered in Cambridge, UK, the company also has sales and support offices in Bad Homburg, Germany and in Redwood Shores, California, USA. For more information, please visit <http://www.enecsys.com>.