**REC GROUP**

**Job Description – Employee Positions**

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| **Principal Engineer - Furnace Technology** | |
| **1. ORGANIZATION:** | |
| BU, Company, Dep.: | REC Solar Pte Ltd |
| Location: | Singapore |
| Superior Manager: | Director, Wafer Technology |
| Immediate manager: |  |
| **2. ROLE/JOB SUMMARY:** | |
| The candidate will be expected to take a leading role in the development of the furnace activities in Singapore for both current platform but also in developing technology step change.  The candidate in Furnace Development has a key role in improving wafer quality for downstream Solar Cell & Module processing. The role of the candidate is to design, initiate and run improvements projects together with our customers, suppliers, supply chain and operation. The candidate will also be a contact towards Cell and Module Operations to verify the wafer quality towards its contribution to Cell Efficiency and Module Power. | |
| **3. ESSENTIAL DUTIES AND RESPONSIBILITIES:** | |
| * Develop existing and new crystallization processes to improve crystal quality * Plan, coordinate and execute improvement activities with furnace process and experiments * Follow up on continuous improvement projects with material suppliers | |
| **4. ADDITIONAL RESPONSIBILITIES:** | |
| * Assist wafer operations with technical analyses, trouble shooting and improvement projects | |
| **5. AUTHORITIES:** | |
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| **6. REQUIRED QUALIFICATIONS AND SKILLS:** | |
| Technical/ Professional: | * PhD in metallurgy, materials science, physics, mechanical engineering (or MSc with considerable experience) * Min. 3-5 years relevant experience from industrial or academic R&D |
| Technological: | * Expertise in silicon crystal growth or other high temperature crystallization/casting processes * Understanding of crystal quality and crystal defects and their link to process conditions * Knowledge of statistical data analysis methods and DOE * Understanding of high temperature processing equipment technology |
| General: | * Self-driven and with the ability to act pro-actively * Positive attitude and teamwork abilities * Structured and analytical |
| People/Relations: | * Positive and proactive attitude and teamwork abilities * Excellent ability to co-operate with different professionals (operations, equipment suppliers, technology institutes, supply chain, operation) * Fluent in English, orally and in writing * Enjoy working in an international team |
| REC knowledge: | * Not Required |
| **7. ADDITIONAL, ADVANTAGEOUS SKILLS:** | |
| Experience in documentation of experimental observations & data in publications / literature | |
| **8. OTHER REQUIREMENTS** (Physical, Certificates, Etc)**:** | |
| Some travelling to conferences, seminars, supplier visits is to be expected. | |

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