**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
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| **4. ADDITIONAL RESPONSIBILITIES:**  |
| * Assist wafer operations with technical analyses, trouble shooting and improvement projects
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| **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
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| 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
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| General: | * Self-driven and with the ability to act pro-actively
* Positive attitude and teamwork abilities
* Structured and analytical
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| 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
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| REC knowledge: | * Not Required
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| **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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