



We encourage you to join our team

We are looking for

Process Development Engineer

The Opportunity

QMAG Pty Limited is one of the world's largest producers of Deadburned, Electrofused and Calcined Magnesia for the global refractory and chemical markets. Magnesite is mined at our Kunwarara Operation; transported and further processed at our Parkhurst Site. The Process Development Engineer is responsible for providing technical expertise and advice for the optimization of product quality and consistency, improving process efficiencies and plant effectiveness. They will provide an important link between external consultants, energy providers as well as QMAG engineering and operations teams across both Kunwarara and Parkhurst. The role will include all aspects of the operations but will have a specific focus on energy saving and efficiency projects including heat recovery and alternative renewable energies.

With a strong commitment to the safe and efficient operation on the sites, the Process Development Engineer, will contribute to the Research and Development team and the broader QMAG business by embracing a collaborative and high performing culture that ensures the optimization and efficiency of the plants.

The Role

The role of Process Development Engineer will involve, amongst other things:

- Participate and/or lead feasibility studies, business cases, detailed designs for projects utilising multi-discipline design teams related to the following areas:
 - Renewable Energy
 - Hydrogen and Ammonia
 - Heat reclamation and Cogeneration
- Develop, implement and monitor proposals to increase plant throughput and improve plant flexibility.
- Improve efficiencies and reduce costs through continuous improvements
- Liaise between operations and external software providers to build dynamic process optimisation models
- Identification and development of process control techniques to ensure product quality and optimize plant functions
- Provide technical advice and direction to facilitate the best processing outcomes from both minor and major engineering projects
- Identify opportunities to improve systems and equipment efficiencies to reduce emissions

The Requirements

We are looking for people with the following:

Essential:

- Tertiary qualifications in Process or Chemical Engineering
- Minimum five (5) years' experience in heavy industrial processing environments
- Competent in developing and using dynamic process simulation and optimization models
- Excellent communication skills (English), both written and verbal
- Experience in process improvement and plant optimization; including plant trials and reporting
- A current driver's license
- A strong commitment to safety
- Strong interpersonal skills with the ability to build positive relationships quickly

Highly Desirable:

- Experience of heat recovery / electricity generation projects
- Qualifications / experience in hot work processes, pyro-processing in an industrial minerals field
- Experience working with Citect SCADA and/or PLCs
- Experience of working with Matlab or other process simulation software
- Knowledge of 5S, Six Sigma, Lean and Standard Work tools

The Rewards

We will offer you:

- A challenging and rewarding position with the opportunity for progression within the business
- Training and development opportunities to further your career
- Family friendly location and ability to be home every night
- Open Work Culture
- A safety focused workplace striving to excel within the Magnesia industry
- A workplace committed to continuous improvement

QMAG acknowledges Aboriginal and Torres Strait Islander peoples as first Australians and we respect their rights and interests in Australia's lands and waters. We seek constructive relationships that are based on respect, meaningful engagement, trust and mutual benefit. We pay our respects to their Elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples today.

QMAG is an equal opportunity employer and offers a family-oriented workplace where diversity, equity and inclusion are valued. Regardless of differences, our employees' culture is seen, heard, and respected. We treat everyone fairly, with equal representation, opportunity and pay. We are also proud to be a WORK180 recommended workplace.

Interested?

If this challenging task appeals to you, please send us your detailed application with information on the earliest possible starting date, salary expectations exclusively by e-mail to: Melissa.Brand@qmag.com.au