



Process Engineering Intern
Erskine Park NSW 2759, Australia

Description

BlueScope is an Australian-born, global success story, spanning 18 countries, with a team of over 14,000 people. We're driven by innovation and are proud that the technologies in our products and brands, like COLORBOND® steel, inspire and protect everything from hospitals and bridges to stadiums and homes.

The Opportunity

Come and discover the opportunity to join our Engineering team at BlueScope Western Sydney Service Centre at Erskine Park as a Process Engineering Intern.

As a Process Engineering Intern, you will conduct some projects while providing technical support on process safety and environmental matters such as BlueScope's carbon reduction initiatives. Also, you'll support to resolve the day-to-day operational related problems of the paint line, as well as investigating and implementing process improvement projects, whilst championing a safety-first culture and maintaining highest quality standards for Colourbond products.

You will have the unique opportunity to acquire invaluable exposure to a broad variety of systems, equipment and business areas, all while being a part of Australia's largest steel solutions provider.

What Will You Do?

With your analytical, hands-on approach you will:

- provide process engineering support to resolve the day-to-day operational related problems of the paint line
- support and implement process improvement projects
- deliver continuous improvement outcomes to support the production and supply of our products

Major project ideas:

1. Laminator heating model upgrade

Improved model and understanding of heat transfer during the corstrip application process to achieve target adhesion. There are 3 main models currently in operation.

LMT- laminating melting temperature- the temperature of the steel strip just before the plastic film is applied. This model works ok but may need some fine tuning.

CDT- the corstrip dwell time the time after the plastic film remains at high temperature before it is water quenched. This works generally ok but due to range of speeds and spray bar positions can be lumpy.

Laminator roll model - The third model was not really worked on. This is a model to work out how much heat is removed by the laminator rolls. This involves the force which the laminator rolls are applied and the rubber thickness on the laminator rolls and the cooling water through the rolls.

2. Solvent waste recycling

Solvent waste disposal incurred a huge hidden cost and environmental damage in terms of GHG emissions.

Recycling solvent waste is an ongoing project still having some issues to be resolved in terms of quality of the recycled solvent. Therefore, this project will mainly be focused on options to improve the quality of recycled solvents and suitability of its applications in the paint line.

With a genuine interest to grow and develop your career, you will bring:

- an undergraduate in Chemical Engineering or similar (Process Engineering)
- a commitment to the safety and wellbeing of yourself and others



At BlueScope, our people are our strength, and we don't say that lightly. We want our people to be successful, and to be safe. We offer work-life flexibility through our B-flex program and make sure our inclusive work environment welcomes people of all backgrounds. We're passionate about driving sustainability outcomes that matter to our communities, including action on climate and our 2050 net zero goal. And we'll do this through Our Purpose: We create and inspire smart solutions in steel, strengthening our communities for the future.