

Erika Steyn

PHD STUDENT

RESEARCH TOPIC

I am a PhD student working on the characterisation of railway material behaviour when exposed to high temperatures. The research aims at gaining a better understanding of the effect that high temperature processes such as welding or rail grinding has on the rail and wheel materials during operation.

HOW TO REACH ME:

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Industrial and Materials
Science (IMS), Div Engineering
Materials,
Chalmers University of
Technology, SE 412 96
Göteborg, Sweden

WORK EXPERIENCE

Mechanical Engineer

Sasol Ltd| November 2016 to June 2017

Technical expertise and project management for chemical plants in both operational and shutdown conditions

- Technical resource for Plant Maintenance
- Responsible for critical path projects in plant shut downs
- Ensuring legal compliance of plants, including assistance during legal and insurance audits

Engineer in Training

Sasol Ltd| January 2013 to October 2016

Sasol Graduate Development Program, including rotations in Design, Greenfields projects, Fabrication, Plant Maintenance and specialised services such as Reliability, Integrity, Metallurgical services and Rotating Equipment.

GENERAL INFORMATION

Date of birth: 19 July 1990

Languages: Afrikaans (native), English (fully bilingual) and Swedish (basic)

Citizenship: South African

EDUCATIONAL TRAINING

Chalmers University of Technology Gothenburg, Sweden

Master of Science in Materials Engineering

- Attended August 2017 to June 2019
- Cumulative grade of 4.5
- Master thesis on Milling and Grinding for Rail Surface Treatment
- SI Scholarship holder (2017 - 2019)
- NFGL Gothenburg board 2017/8

University of North West Potchefstroom, South Africa

Bachelor of Engineering in Mechanical Engineering

- Attended Jan 2009 to Dec 2012
- Cumulative grade of 73.7%
- Sasol Bursary holder (2009 - 2012)
- Bachelor thesis on Optimised flow through the header box of an air cooled heat exchanger