Mariana Oliveira

Metallurgical and Materials Engineer & Data Analysis Specialist

Contact

mviegas.oliveira@gmail.com
linkedin.com/mviegasoliveira

Education

Universidade Federal de Minas Gerais (UFMG), Brazil
Metallurgical and Material Engineering

Highest academic award for the best overall performance in the degree program

Core Competences

Metallurgy
Research and Development
Product Management
Data Analysis
Communication

Skills

MS Office
Python
MATLAB
SQL
Tableau
MAGMA Gießsimulation

Personal

Brazilian and Italian citizen
Class B driver's license
Multilingual: Portuguese, German, and English

Baesweiler,
10.09.2024

Metallurgist and materials engineer with a solid technical background and recently completed further training in data analysis after parental leave. Proactive and analytical, with the ability to interpret complex data for decision-making and communicate it easily.
Currently seeking new opportunities to apply my engineering experience and knowledge in data analysis.

Projects

Characterization of raw materials for sintering

- The sintering of iron ores is a complex process that involves the use of dozens of raw materials. To ensure consistent quality, I evaluated various mixtures using MATLAB and Excel and defined the best recommendations.

Process monitoring of sputtering

- Sputtering of high-entropy oxides was a new process that led to irregular film qualities. By analyzing process data and conducting experimental characterization, I gained a better understanding of the process and was able to produce reproducible films.

Professional Experience

10.2023 – 09.2024
Data Analytics Training • CareerFoundry

- A total of 775 lessons, project-based learning
- Tools and languages: Excel, Tableau, Python, SQL

10.2020 – 09.2022
Product Manager Iron Casting • MAGMA Foundry Technologies

- Strategic development of the iron casting product, worldwide application support, coordination of internal communication on development topics, and promotion of internal professional exchange

07.2018 – 09.2020
Specialist for Burden Preparation • R&D Pig Iron • AG der Dillinger Hüttenwerke

- Monitoring and control of raw material and sinter quality, coordination of cross-group R&D projects

04.2016 – 05.2018
Research Associate • Sputter Group • I. Physics Institute (IA) of RWTH Aachen University

- Production and characterization of thin films, responsibility for the sputtering laboratory