

transforming
tomorrow



Where will you have your next challenging professional experience?

ArcelorMittal is the world's number one steel company, with **222,000 employees in more than 60 countries**.

In a global business mode, ArcelorMittal is the **leader in all major global markets**, including automotive, construction, household appliances and packaging.

We are visionary thinkers creating opportunities everyday. This entrepreneurial spirit brought us to the forefront of the steel industry.

Join ArcelorMittal Global R&D and envision the steel of tomorrow!!

ArcelorMittal Global R&D is spanning the Globe with 12 sites dedicated to research (operating in process, products, application and steel solutions) within 8 countries and more than 25 nationalities. Because quality outcomes and innovation spirit depend on quality people, we seek to attract and nurture the best people to deliver superior and innovative solutions to our customers.

Would you want to integrate a multicultural company with challenging missions and passionate people, ArcelorMittal is for YOU!

We are looking for Interns, VIE, apprentices willing to work in a multicultural environment in different domains.

Location		Contact			
Research center:	Maizières Process	Last name:	Assi	E-mail :	Mariam.assi@arcelormittal.com
Cluster :	Downstream Processes	First name:	Mariam	Phone number:	
Department:	Downstream Processes	Job title:	R&D Engineer		

Training offer	
Mission title: Thermal modelling for cold rolling of electric steels	
Start date: 2024 (January-March)	Duration: 6 Months
Worklocation: Maizières-lès-Metz (France)	
Areas	
<input type="checkbox"/> Purchasing <input type="checkbox"/> Commercial / Marketing <input type="checkbox"/> Finance / Audit <input type="checkbox"/> Legal / Communication <input type="checkbox"/> Supply Chain / Logistic <input type="checkbox"/> Maintenance	<input checked="" type="checkbox"/> Production / Process / Exploitation <input checked="" type="checkbox"/> Research & Development / Metallurgy Innovation <input checked="" type="checkbox"/> Recycling / Process and Product Development <input type="checkbox"/> Human resources / Health / Safety / Environment <input type="checkbox"/> Strategy & Business Development <input type="checkbox"/> Information System / Industrial Computer Science



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The mission: accountabilities and activities

The aim of this internship is to optimize a thermal model applied to the cold rolling process of electrical steels. The main missions of the intern are:

- Familiarization with electrical steel production processes in general, and cold rolling process in particular
- Bibliographic review of existing R&D cold rolling models and tools
- Optimization of a simplified thermal model and comparing it with scientific literature
- Experimental validation and further optimization of the analytical model could be addressed

The environment

This internship will be carried out within the Downstream Process (DP) department of Process center at Maizières-lès-Metz, France. Inside the DP department, the student will work in an international environment involving around thirty specialists: R&D engineers and technicians.

The purpose of the mission:

ArcelorMittal has created and produced a wide range of electrical steels since 1917. Our clients recognise these high-tech steels for their quality, reliability, and sustainability. We continually invest in our electrical steel products, manufacturing processes, and production facilities so that we can help our clients to meet their challenges and build a more sustainable world together.

With the development of electric cars in automotive industry, steel manufacturers must adapt their processes to this growing demand. Steelmaking processes must be more efficient and must reduce their carbon footprint. Cold rolling process is an important step in the steelmaking processes. For cold rolling of flat products, the process capability defines the final products' thickness and flatness level, thus playing a direct role in the quality of the final product. Therefore, a higher control of the cold rolling process is necessary.

To achieve this, our production lines are continuously working on further optimization, production speed and quality improvement. The intern will collaborate with different R&D teams to build a thermal model for the cold rolling processes. This will contribute to improve the knowledge of the processes and to allow to reach our ambitious objective for ArcelorMittal electric steel products.

Trainee's profile

Studies level: Master degree

Discipline : mechanical / process / modelling

School/University : Engineering schools or University

Required profile and competencies

- Mechanical/ Process Engineering (master 1 or 2).
- Knowledge in heat transfer and thermal modelling.
- Programming knowledge in C++.
- Knowledge of other programming languages could be a plus (Visual Basic, fortran, ...).
- Good metallurgy knowledge is a plus.
- Logical thinking, scheduling, results oriented, rigorous, autonomy and team-working.
- A good English level is required, and French is highly recommended for daily use.
- Team work and communication skill.

Interested candidates can apply through the website or send directly the CV, the cover letter and 1 recommendation letter to the mentor: mariam.assi@arcelormittal.com.