

## 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	aizières	Last name:	Teaca		
	utomotive	First name:	Mihaela	E-mail :	mihaela.teaca@arcelormittal.com
	UP <sup>2</sup>	Job title:	Research Engineer	Phone number:	03 87 70 43 23

Training offer						
Mission title: Detection of cracks during Hole Expansion Tests by using Infrared Thermography						
Start date: 1st quarter 2022	Duration: 6 months					
Worklocation: Maizières-Lès-Metz	·					
Areas						
Purchasing  Commercial / Marketing  Finance / Audit  Legal / Communication  Supply Chain / Logistic	Production / Process / Exploitation  Research & Development / Metallurgy Innovation  Recycling / Process and Product Development  Human resources / Health / Safety / Environment  Strategy & Business Development					



The mission : accountabilities and activities	
The trainee will have the possibility to perform experim	iental tests.
The environment	
The trainee will work within Products Research Center This research center is located in the greatest ArcelorN ArcelorMittal can help the trainee to find housing in Me	
Maintenance	Information System / Industrial Computer Science
The purpose of e mission:	
sheet to be stamped without failure at a sheared edg where a conical punch is forced through a pre-drilled ho measurement is known as hole expansion ratio (HER) In Automotive Center, at least 10 000 tests are perform the crack apparition is observed visually by an operate must be stopped manually after visual crack detection. In order to tackle this problem Infrared Thermography automate the process including the automatically stop The trainee will be in charge with  To do HER according to the ISO16630 methods use to find solution to fully automate the process	ned on various grades and thickness of steel sheets per year. However, or. As a consequence HER values suffers scattering because the test of has recently used to accurately assess. The next step consist to fully and the measure of diameter to obtained hole expansion rate value.  Support of the step consists to fully and the measure of diameter to obtained hole expansion rate value.
to obtained hole expansion rate value by using im	lage from camera IR

Trainee's profile					
Studies level: Bac +4 Discipline: Materials science, Mechanics, IT and Computing					
School/University:					
Required profile and competencies					
Skills required in mechanics  - Good knowledge in physical and comp  - Autonomy, Initiative spirit  - Synthesis Capacity	uter measurement				

To put back to appropriate trainee correspondent