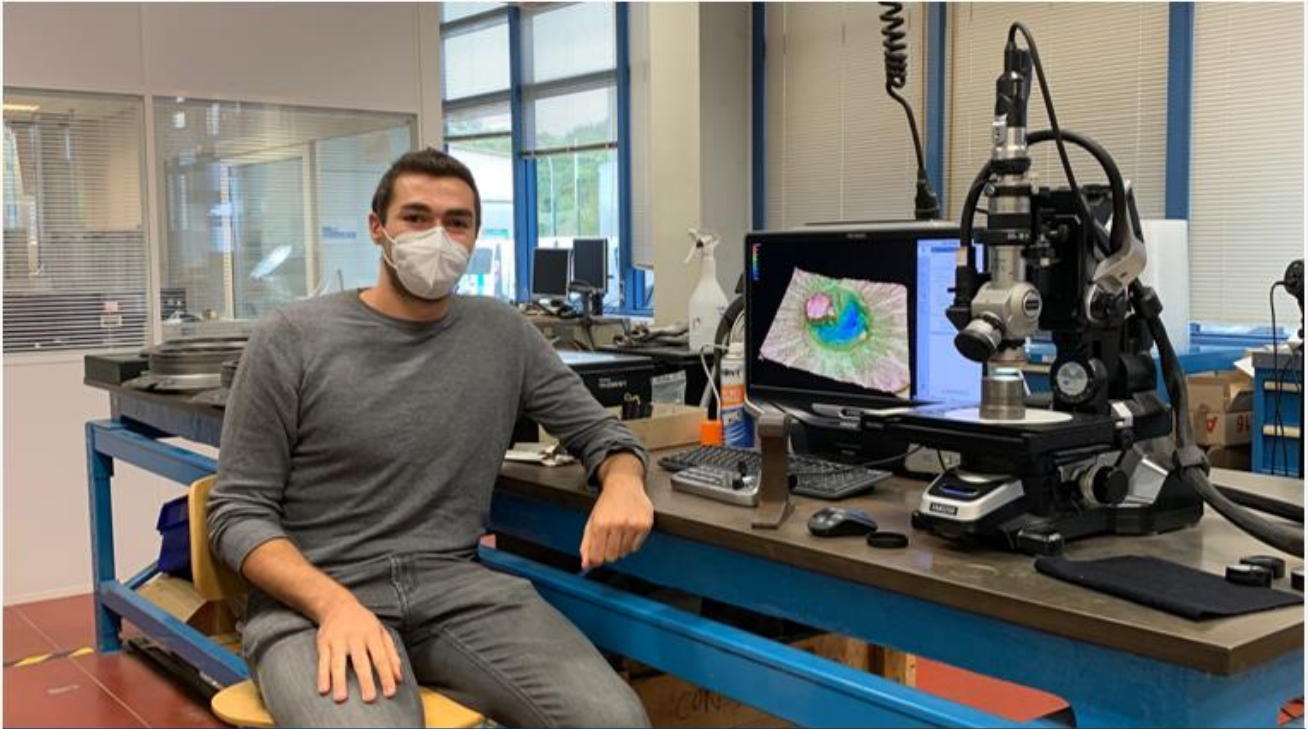


BENOÎT DYLEWSKI PROFILE



Benoît DYLEWSKI

Test engineer – Metal parts and failure analysis
Test and Measurement Laboratory – RATP



Benoît Dylewski has worked as a Test Engineer at the Test and Measurement Laboratory for four years and has headed the Expert Analysis and Monitoring Team of the Mechanical division since January 2020. Benoît's team of eight, accredited in hardness testing, has three key functions:

- **Failure analysis:** fractographic inspections, dimensional measurements, mechanical tests and materials analysis, etc., to establish the cause or causes of deterioration of a part.
- **Studies on metal parts:** retro-engineering, parts qualification, expert analysis of used parts and qualification of welding procedures.
- **Dimensional inspections and approval** of safety components (springs, screwed fixings, etc.) delivered by RATP suppliers.

Benoît therefore handles the customer requests, assigns them to his colleagues and is responsible for monitoring and ensuring that the expert analyses in progress run smoothly (tests, analysis of results and writing of reports).

How does a typical day unfold?

It starts by consulting the various requests made by customers for expert analyses or mechanical tests using the dedicated software. A feasibility study is conducted: the client making the request is contacted to obtain the necessary background information to best assess their need and to explain to them the process and work performed by the Test and Measurement Laboratory. An offer containing a technical and commercial proposal is then produced. During his day, Benoît monitors the expert analyses conducted by discussing the technical issues with his colleagues.

His tools? A digital microscope, a 3D measuring machine, a tensile/compression testing machine and a spark spectroscopy, etc. All the equipment needed for Benoît and his colleagues to obtain reliable results and use them in his test report. A technical review is then carried out and the report is validated.

YOUR CAREER IN FOUR STAGES

2013

Graduated as a Mechanical Engineer from the Université de Technologie de Compiègne (UTC).

November 2016

Completed his doctoral thesis on the wear on railway rails (Laboratoire Roberval, UTC-CNRS)

2016

Joined the Test and Measurement Laboratory (LEM) as a Test Engineer responsible for analysis and development

2020

Head of the Expert Analysis and Monitoring Team of the LEM Mechanical division.



Three words that describe your job?

Expertise

Investigation

Impartiality

What makes you most proud in your job?

"My job is fascinating and full of variety. There are always new areas of expertise to explore in different fields. I feel proud of my job because it enables me to resolve important issues for the company and our customers, issues that could lead or have led to incidents or accidents. It is always gratifying to solve a problem before it becomes one, and to understand the cause in order to avoid repetition."

What is your best memory of an assignment for Eurailtest?

"Failure analysis of a broken contact wire on a tram line in a major French city. The objective was to establish the cause of the broken contact wire in service. This expert analysis posed a serious challenge for the customer because incidents like these have a direct impact on tram punctuality and customer satisfaction. This assignment involved a great deal of interaction: to understand the background behind the failure and to deliver the intermediate test results and conclusion of the expert analysis."

ANY FINAL WORDS TO ROUND OFF THIS INTERVIEW?



"Condemnation without investigation is the highest form of ignorance".
Albert Einstein