

Industrial Day – Project Submission Form

Please complete this form to provide information about the projects your company will present during Industrial Day. This information will help us organize and communicate available Master's Thesis (TFM) opportunities to students.

Company Name
Eurecat – Technology Centre of Catalonia

Project Title
Automation of Metal Powder Dosing for Microwave Treatment

Project Description
<p>This project aims to design and develop an automated system for precise dosing of metal powders, including materials that are difficult to handle, for microwave-based material processing. The solution must ensure electromagnetic compatibility with the microwave environment while maintaining process safety and efficiency.</p> <p>The work will involve defining functional and safety requirements, designing the dosing mechanism (e.g., pneumatic or vibratory technology), and selecting materials and components suitable for microwave conditions. The project will also include developing an electronic control system with integrated sensors for monitoring and validating the prototype under controlled conditions. The expected outcome is a fully operational system that enables accurate, safe, and automated dosing of metal powders for advanced microwave treatment processes.</p>

Responsible Person
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Is there financial support available? (Yes/No)

Yes

No

Number of available positions
1

Thank you for your collaboration and participation in Industrial Day.