

*Dr Julie Gheysen*

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Julie Gheysen is currently working as a postdoctoral researcher in the Laboratory of Mechanical Metallurgy (LMM) at EPFL since January 2023. She is focusing on the development of a new, less turbulent and less energy-intensive additive manufacturing technology, similar to FDM, and is exploring the influence of a magnetic field on the melt pool dynamics, the resulting microstructure and mechanical properties. Julie obtained her PhD from the University Catholic of Louvain-la-Neuve (Belgium) in 2022. Her thesis focused on the development and characterisation of healable aluminium alloys manufactured by Laser Powder Bed Fusion. She worked on the alloy design, optimisation of the LPBF process and characterisation of the healing ability of the alloys using correlative imaging including nano-holotomography at ESRF synchrotron, PFIB-SEM-EDX and TEM. More details can be found on "[Julie Gheysen Google Scholar](#)" or "[ResearchGate](#)".