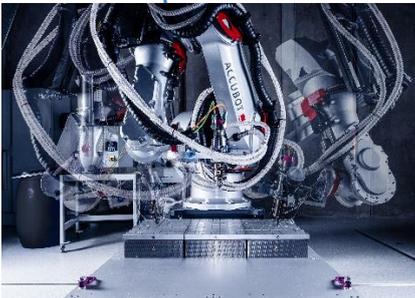




Master Thesis at German Aerospace Center (DLR) in Braunschweig, Germany

Path planning in continuously fiber reinforced robotic additive manufacturing

Would you like to be part of this novel research?



At the Institute of Lightweight Systems in the department Adaptronics of the German Aerospace Center (DLR), we develop and enhance the whole process chain of fiber reinforced robotic additive manufacturing. We develop short and continuously reinforced material with carbon fibers and high-performance polymers that we print with 6-axis CNC systems.

Especially continuously reinforced filaments have the potential to allow load induced fiber deposition in a volumetric manner. However, the fiber path planning and control algorithms remain a challenge that's need to be solved.

Your journey would support our current initiative to allow this capability and prepare it to industry transfer. You will be given the possibility to develop new control algorithms and test them in the manufacturing and testing facilities at DLR.



The thesis must be written in English. You will work at DLR in Braunschweig (Germany). A laptop will be provided as well as the necessary lab equipment. Your direct supervisor will be at DLR location in Braunschweig but you will also get council from your professor at the university of Trento.

Are you interested?

Then contact **Emiliano Rustighi** at your university. He will answer your initial questions and put you in touch with us in Braunschweig.

Contact at University of Trento

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