

*Phd position: "Surfaces of 3D printed metals" (start as soon as possible in 2019)*

The project will focus on stainless steel made by additive manufacturing using the LMD technology and the novel approach of hybrid additive-subtractive manufacturing. In the PhD topic the surface of the printed metal will be analyzed in terms composition and microstructure as a function of processing conditions, and the resulting surface related properties are fundamentally studied. These include corrosion and adhesion properties as well as the link to the mechanical properties such as fatigue.

For the PhD position we are looking for a Master in Science or Engineering Sciences with sound knowledge of materials science, metallurgy, electrochemistry, corrosion, and preferentially also knowledge on surface engineering and analysis of metals.

The project will involve learning to work with various surface analysis techniques, doing experimental electrochemistry and metal surface processing.

As we are an international research group (group SURF as part of the Dept. Materials and Chemistry (MACH)) with people from all over the world, uniting all languages and cultures in one large community, we are looking for researchers that can work together in a very dynamic team, open minded, fluent in English communication and willing to contribute to the engineering education programs as part of your PhD training. The University has its own unique identity, so I invite you to look at the VUB website.

The project is a 4-year project, starting with a maximum of 1-year as trial period.

You are welcome to send you CV including your academic track record (courses and scores) to

[Katrien.Van.Hecke@vub.be](mailto:Katrien.Van.Hecke@vub.be) and [Iris.De.Graeve@vub.be](mailto:Iris.De.Graeve@vub.be)

Prof. Dr.ir. Iris De Graeve

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