

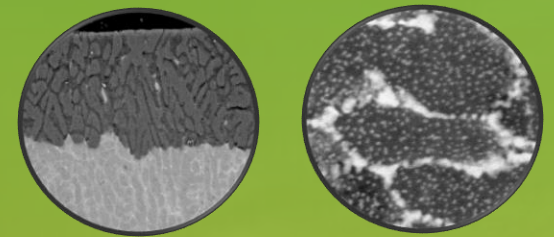
Research on Metal Additive Manufacturing in the SURF group

Metal Additive Manufacturing, one of the enabling technologies for **Industry 4.0**, has numerous applications in industries such as medical implants, energy, aerospace, and automotive due to its near net-shape manufacturing capabilities. Here is an overview of the **exciting research** that we are conducting at the **Electrochemical and Surface Engineering Research Group (SURF)** at the Vrije Universiteit Brussel!

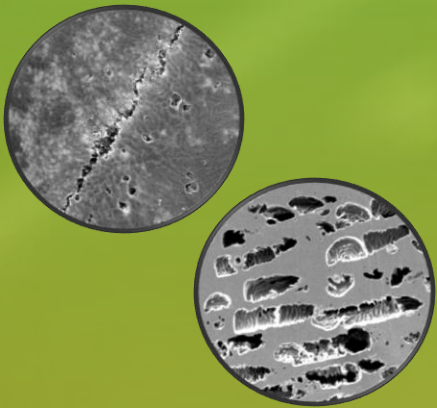
**3D
PRINTING**

Experimental research

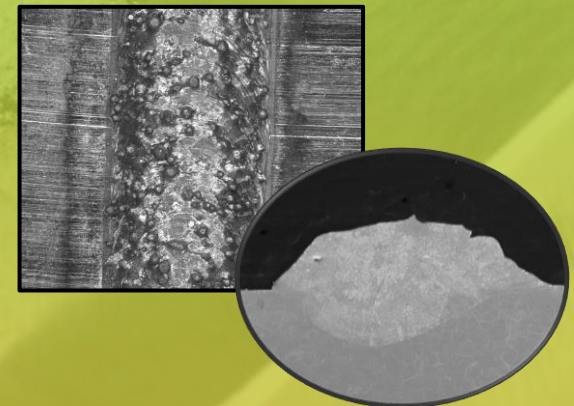
Post-surface treatments to improve the corrosion and adhesion performance of additively manufactured metals and alloys.



Corrosion studies to understand the impact of microstructure and inherent defects on the corrosion behavior of 3D printed metals/alloys.



Metal additive manufacturing for repair applications:
Microstructural analysis and corrosion performance.

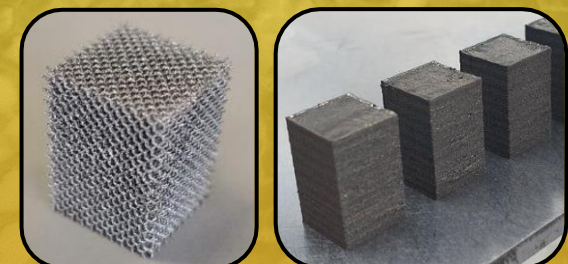


Additive manufacturing techniques & alloys

**Laser Powder Bed Fusion (L-PBF), Laser Metal Deposition (LMD),
Wire Arc Additive Manufacturing (WAAM)**



**Aluminium alloys (Al-Si), Steels (stainless steel, low carbon steel),
Titanium alloys (Ti6Al4V)**



Interested in **research on 3D printed metals**? Do you want to contribute to a **better understanding of 3D printed metals' performance** for a further development of this **advanced material manufacturing**? Please let us hear from you, we are very excited to work with you!



Contact: Iris.De.Graeve@vub.be
Reynier.Inocente.Revilla.Castillo@vub.be

See you soon!



ELECTROCHEMICAL
& SURFACE ENGINEERING
RESEARCH GROUP



VRIJE
UNIVERSITEIT
BRUSSEL