

Name: Lakshmi L Parimi

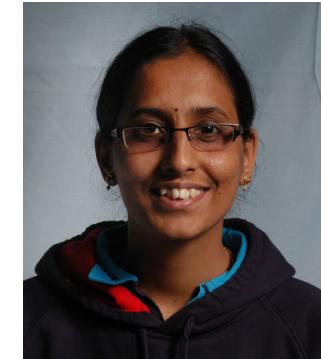
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- **Background:**

B.E, AUCE, Visakhapatnam, India 2006

M.Tech, IIT Kharagpur, India 2008

PhD, University of Birmingham

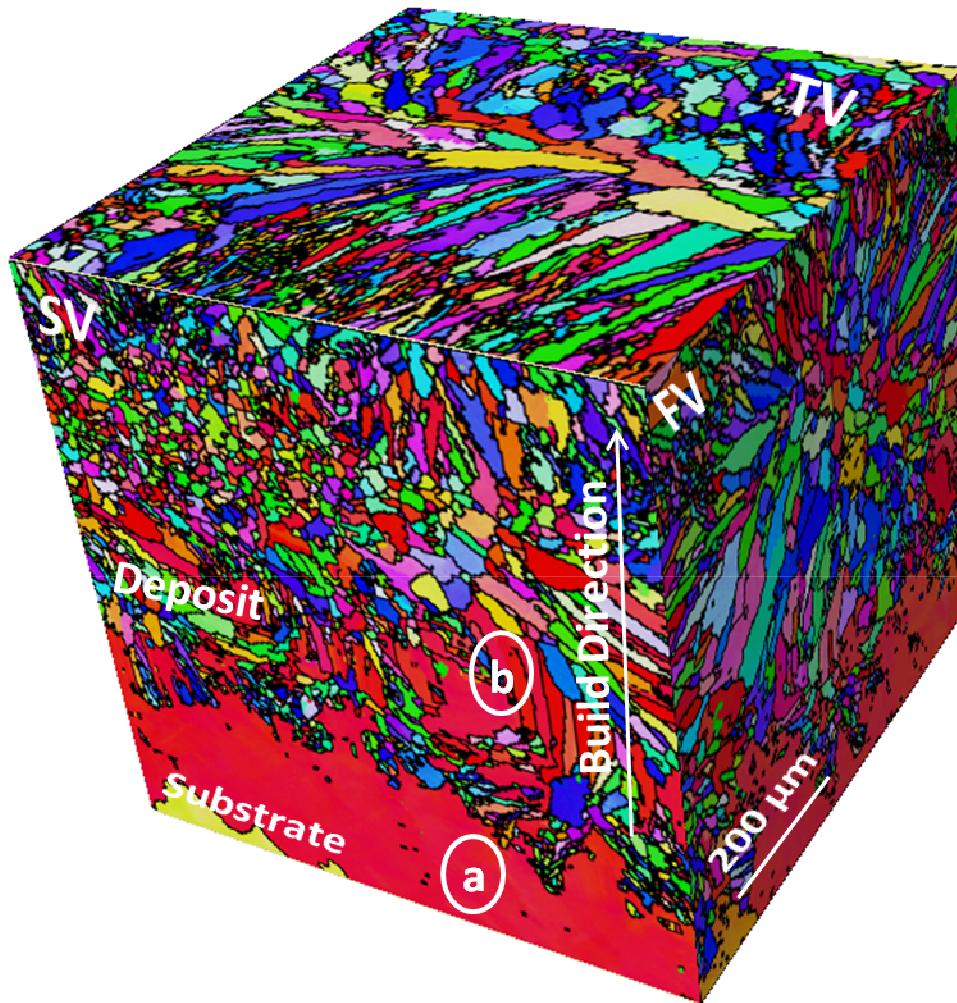
Additive layer manufacturing of Nickel-based superalloys

- **PhD topic:** Direct Laser fabrication of Inconel 718 for aerospace applications (The Project deals with Direct laser fabrication of Inconel 718 for Hybrid manufacturing as well as repair applications. The depositions will be optimised to get minimum distortion, stress and homogeneous microstructure.)

- **Experimental Techniques/Equipment:**

- SEM (Joel 7000, PhilXI30), EBSD (Joel 7000), Neutron diffraction, Thermal analysis (DSC), Quantum DLF, CMM laser Scanner.

- **Publications:** Direct Laser Fabrication of INCONEL-718: Effects on Distortion and microstructure Lakshmi Lavanya Parimi, Moataz M. Attallah, J.C. Gebelin and Roger C. Reed in Superalloys 2012.



EBSD map showing the grain size distribution of deposit in all 3 directions