

Dr. Jon Molina-Aldareguia (PhD Cambridge University, 2002) is Deputy Director of IMDEA Materials Institute and Associate Professor of 3D printing at the Universidad Politécnica de Madrid (UPM). Dr. Molina-Aldareguia is an expert on the mechanical behavior of materials across multiple length scales. He has pioneered the implementation of nanomechanical testing techniques in extreme conditions, such as non-ambient temperature, and /or *in situ*, to interrogate materials' structure during processing and service using electron, optical and/or X-ray spectroscopy. Current lines of research include the development of metamaterials and smart materials by additive manufacturing for biomedical applications, including Ti, Mg, Zn and TiNi-based devices.