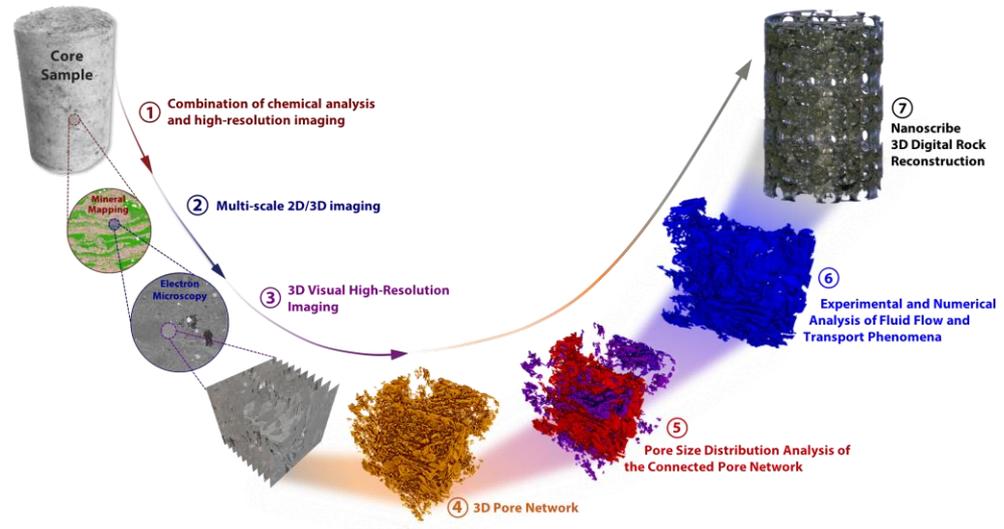


Multi-scale Fluid-Solid Interactions in Architected and Natural Materials (MUSE)

Darryl P. Butt (University of Utah); Class: 2018-2022

MISSION: To synthesize geo-inspired materials with repeatable hierarchical heterogeneity and develop an understanding of transport and interfacial properties of fluids confined within these materials.



www.EFRCMUSE.utah.edu

RESEARCH PLAN

Synthesized geo-inspired materials will be used to probe the transport and interactions of multi-phase fluids over many length scales, including at the nanometer scale. Dynamic in-operando determination of material and fluid properties will be performed, and these measurements will be used for the development of experimentally-validated, atomistically-informed modeling tools and frameworks.

