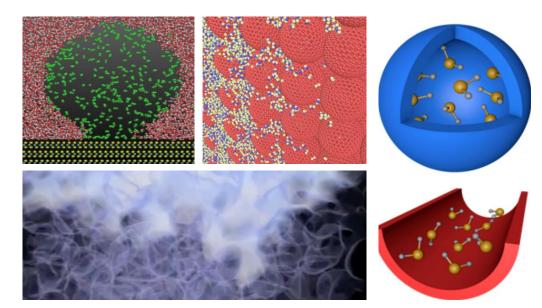
## Multi-scale Fluid-Solid Interactions in Architected and Natural Materials (MUSE) Milind Deo (University of Utah); Class: 2018-2024

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.



https://efrcmuse.utah.edu/

## **RESEARCH PLAN**

Geo-inspired materials at various levels of hierarchical porosity and complexity are synthesized and used to probe thermodynamic and transport interactions of multi-phase fluids over many length scales, including at the nanometer scale. Dynamic operando measurements are performed and provide the basis for the development of experimentally-validated and atomistic-informed modeling tools and frameworks.















