NCGC Mission Statement
Enhance the performance and predictability of subsurface storage systems by understanding the molecular and nanoscale origins of CO₂ trapping processes, and developing computational tools to translate to larger-scale systems

esd1.lbl.gov/research/facilities/ncgc/

RESEARCH PLAN
Experimental investigations will probe nanoscale fluid-fluid and fluid-mineral interactions and their effects on subsurface CO₂ trapping. Characterization and experiments will be integrated with mesoscale chemical-mechanical-hydrologic modeling and simulation to achieve a transformational predictive capability for stratigraphic- and reservoir CO₂ trapping efficiency and long-term reliability.