



Premier is at the leading edge of Carbon Capture & Storage (CCS)

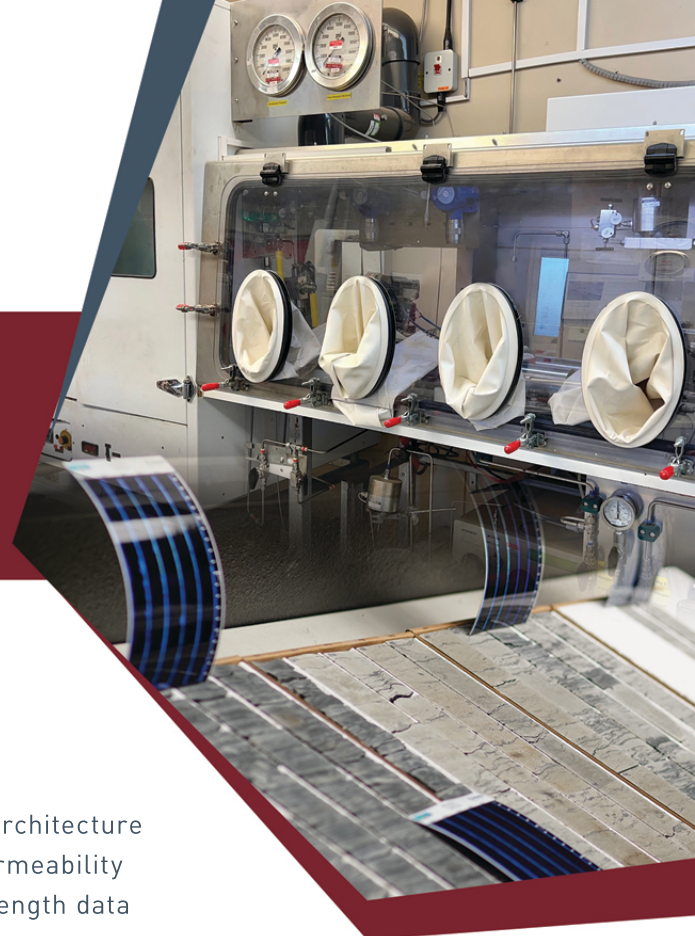
Use our extensive **experience** and **lab capabilities** to identify and risk subsurface locations for CO₂ sequestration.

Our Areas of Focus and Advantage:

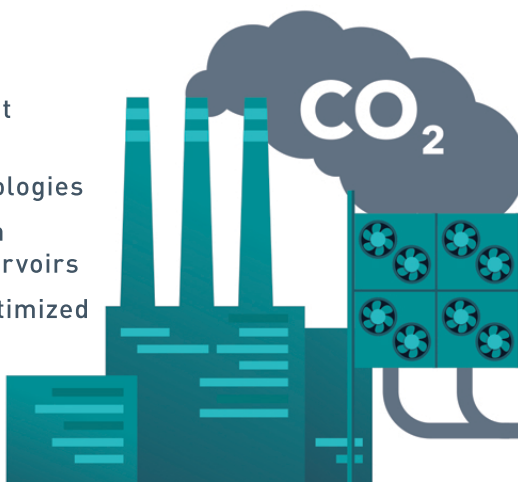
- Refine site characterization to collect data required by EPA Class VI UIC well guidelines
- Characterization of injection zone:
 - Establish stratigraphy and facies to understand injection zone architecture
 - Quantify mineralogy, CO₂-reactive mineralogy, porosity, and permeability
 - Determine appropriate injection pressure calibrated to rock strength data
 - Compatibility of injectate with formation fluids and lithologies
 - Evaluate potential for liberation of trace metals due to induced decreased pH
- Verify confining zone integrity:
 - Determine mechanical rock strength for seal capacity & geomechanics models
 - Understand flow properties & effectiveness of seal in inhibiting migration of CO₂
 - Describe & quantify transmissibility of faults & fractures
 - Establish empirical fluid-CO₂-rock reactivity effects on seal integrity
- Delineate area of review using geologic sequestration computational modeling informed by laboratory measurements.
- Utilize cuttings and core housed at the Premier Sample Library & partner repositories to establish a baseline characterization of prospective CCS formations

Our Experience:

- CarbonSAFE Program Phase II participant
- Extensive experience in geological characterization of all injection zone lithologies
- Recognized leader in assessing formation damage from injection into oil & gas reservoirs
- Proprietary rock mechanics workflow optimized for testing seal units
- Recognized for core analysis advisory & consulting in CCS subsurface industry



CORE SAMPLE



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PremierCorex.com



ILLUMINATING — THE — SUBSURFACE

FROM SAMPLES TO SOLUTIONS

- Core Analysis
- Geochemistry
- Reservoir Models
- Formation Damage
- Core/Cutting Repositories
- Collaboration Space
- Geomechanics
- Fluids Compatibility
- Subsurface Databases
- Carbon Capture & Sequestration

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