Carbon capture and sequestration technology is being advanced by Southwest Research Institute® (SwRI®) engineers and scientists. SwRI offers clients scientific know-how and process development expertise in carbon capture and sequestration to assist in the development of technologies to respond to climate change regulation.

**Capabilities**
Development capabilities include:

- CO₂ capture pilot plant design/integration/operation
- Capture technology selection and evaluation
- Process and flue gas automated sampling and analysis
- CO₂ separation membrane technologies
- Capture system simulation and energy consumption evaluation
- Use of regenerated CO₂ as a process feedstock
- Site monitoring/control
- Complete system analysis and process simulation
- Process component integration
- CO₂ absorption-enhanced reforming process development

**Experience**
Recent areas of work include:

- Gas/liquid equilibrium testing – vapor liquid equilibria (VLE) data
- Greenhouse gas-to-fuel technology
- Geological sequestration testing
- Chemical absorption and physical separation systems
- High-temperature CO₂ separation ceramic membrane development
- Greenhouse gas monitoring
- Alternative energy (fuel cells, hydrogen production, chemical batteries)
We welcome your inquiries.
For more information, please contact:

Michael P. Hartmann  
Senior Research Engineer  
210.520.6927  
michael.hartmann@swri.org

Kyle W. March  
Research Engineer  
210.522.5345  
kyle.march@swri.org

Chemical Engineering Department  
Chemistry & Chemical Engineering Division  
carboncapture.swri.org