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)
Southwest Research Institute is an independent, nonprofit, applied engineering and physical sciences research and development organization using multidisciplinary approaches to problem solving. The Institute occupies 1,200 acres in San Antonio, Texas, and provides more than 2 million square feet of laboratories, test facilities, workshops and offices for more than 3,000 employees who perform contract work for industry and government clients.

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