

ShortTitle: CarbonSequestrationDashboard

Title: Database creation and analysis for carbon sequestration benchmarking

Project lead and contact details: Zane Jobe and Brandon Dugan, Colorado School of Mines
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Suggested team size: 2-4

Logistics: Can work from anywhere, but an office on Mines campus will be available for use.

Project description:

Intro: Global energy needs (and associated carbon emissions) will only increase with increasing population, and creative solutions are needed to fight rising CO₂ levels that are already affecting global climate and coastal populations. The goal of this project is to investigate carbon storage in existing hydrocarbon reservoirs. You will leverage available open-source datasets from the Gulf of Mexico and other oil-producing basins via web-scraping and data wrangling methods. Specifically, you will collect data concerning well locations, pore volumes, production rates and decline curves, subsurface pressure data, etc. If time permits, you will build a public dashboard hosted on the Mines website to display these data and results.