

Gregory (Greg) Sills

Dallas, TX

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Geologist / CCS Professional

Experienced geoscientist with a strong technical background in systems-based geological evaluations, geological modeling, and carbon storage/sequestration (CCS). Proven track record leading large-scale subsurface evaluations to support Class VI applications and 45Q/VCM credit viability. Skilled in full-cycle geological systems analysis, data analytics, and project management. Combines expertise in technical data synthesis, subsurface geological evaluations, and project management to drive actionable insights in support of systems-based geological evaluations and exploration initiatives.

EDUCATION

M.S., Geology; University of Houston; Houston, Texas (2011-2014)

B.S., Earth and Environmental Science; Lehigh University; Bethlehem, Pennsylvania (2007 – 2011)

RELEVANT EXPERIENCE

LAPIS CARBON SOLUTIONS; Dallas, TX

2023 - 2025

Staff Geoscientist

January 2025 – June 2025

- **Principal geologist and team lead for CCS evaluations** covering thousands of square miles across multiple states in the southern United States, supporting technical and commercial objectives for high-graded CCS projects.
- **Generated advanced static geological models**, representative of subsurface geology, to assess CO₂ injection/storage potential and economic viability of captured acreage.
- **Worked closely with in-house technical experts, partners, and multi-industry CO₂ emitters** to advance current and potential CCS projects to Class VI application phase.
- **Coordinated with commercial team to ensure economic viability of projects** based on 45Q and VCM credits, as applicable.

Senior Geologist

November 2023 – January 2025

- **Conducted regional- and fine-scale geological evaluations** across thousands of square miles of prospective and captured acreage positions in support of technical and commercial objectives.
- **Generated detailed static geological models**, representative of subsurface geology, to assess CO₂ injection and storage potential for on-going CCS evaluations.

Contract Geoscientist

June 2023 – November 2023

- **Conducted regional-scale geological screening across the United States** to assess viability of emitter-adjacent land positions for CO₂ storage.
- **Utilized nationally reported emissions data (EPA FLIGHT)** to assess emitter intensity and CO₂ volumetrics as a metric for commercial viability of CCS projects.

SUBSURFACE SOLUTIONS, LLC; Denver, Colorado (Contract)

2022 - 2023

Managing Director/Founder

July 2022 – March 2023

- **Provided a combination of petroleum systems analysis and basin modeling** services to industry clients in support of exploration programs.
- **Built 1-D/2-D/3-D geological models to predict reservoir quality distribution** and assess hydrocarbon prospectivity in areas of interest.
- **Performed reservoir characterization based on rotary core analysis and systems-tract interpretation**, informed by regional well penetrations and geological studies.

KOSMOS ENERGY, LLC.; Dallas, Texas

2015 – 2020

Exploration Geologist

(January 2015 – March 2020)

- **Generated advanced 1-D/2-D/3-D geological models** in support of ongoing exploration projects.
- **Interpreted thousands of square miles of subsurface data (2-D/3-D seismic, well data, geochemistry)**, reflecting rigorous assessments of both regional and sub-regional geological systems.
- **Performed high-resolution geological and geochemical data synthesis** and interpretation.

New Ventures Geologist

(January 2017 – January 2019)

- **Conducted prospect/play/basin-scale geological risk assessments.**
- **Attended international data rooms, conferences, and partner meetings** to stay informed on industry opportunities.

Exploration Geology Intern

(May – August 2013)

SCS GLOBAL SERVICES; Dallas, TX (Remote)

2022 - 2023

Technical Specialist II

April 2023 – June 2023

- **Certified Lead Verifier** for verification of corporate-level reported GHG emissions data (Scopes 1, 2, and 3).
- **Audited GHG emissions inventories** for clients across multiple industries within the United States, and internationally, in support of corporate emissions reduction programs.
- **Evaluated renewable and biogenic emissions inventories using a market-based approach**, accounting for applicable carbon offsets/credits applied by clients in GHG inventories.
- **Improved internal methodologies, processes, and quantitative tools** to increase efficiency of verification workflows.
- **Relevant reporting and verification standards include** ISO 14064-3, ISO 14064-1, WRI GHG Protocol, The Climate Registry (TCR), ISAE, and CORSIA.

Technical Specialist I

March 2022 – April 2023

- **Certified Lead Verifier** for verification of corporate level GHG emissions inventories (Scopes 1, 2, 3, biogenic, HFCs).
- **Worked closely with other emissions specialists** to support client needs related to emissions reduction programs.

MATH ANEX; Denver, Colorado (Remote)

2021 - 2022

Manager Analyst

(September 2021 – March 2022)

- **Senior data analyst who managed a team of multi-discipline analysts** to categorize student responses to national-level exams based on inferred thought-processes, with an emphasis on mathematical, logical, and proportional reasoning.
- **Responsibilities included quality control of analyst data categorizations**, maintaining constructive discussion and process alignment between analysts, and applying qualitative and quantitative workflows to optimize data analysis.

Data Analyst

(June – September 2021)

- **Part of an intra-national team of analysts working within a web-based educational platform** to sort and categorize thousands of student responses to exams, with the end-goal of training a machine learning algorithm to automate the process.
- **Assisted in writing a Python-based categorization algorithm** to automatically parse and sort student responses to exams based on defined criteria.

UNIVERSITY OF HOUSTON; Houston, Texas

2012 – 2014

Research Assistant/Laboratory Analyst – Center for Petroleum Geochemistry

- **Managed and coordinated industry-led and academic research projects**, conducted geochemical sample preparation and analysis, compiled experimental results, and generated technical reports.

SOFTWARE PROFICIENCIES

ArcGIS, Microsoft Office, Petrel, Kingdom, Trinity/T3, Python (limited)