

Madalyn Howard

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EDUCATION

Master of Science, Petroleum Engineering

August 2025

The University of Texas at Austin

Overall GPA: 3.17/4.00

Bachelor of Science, Chemistry

May 2023

Concentration: Petroleum

Stephen F. Austin State University

Overall GPA: 3.22/4.00

WORK EXPERIENCE

Student Associate, University of Texas System

06/2024 – 08/2024

- Supported CIO office to enhance operational efficiency and achieve organizational goals

Summer Engineer, US Energy Corp

05/2023 – 08/2023

- Devised a combination chemical product to pump downhole to reduce the paraffin wax buildup in the Cut Bank Sand Unit in Montana that increased production
- Delivered project with full cost comparison to other removal methods
- Observed a pump repair workover and P&A workover to better understand the importance of field safety and workover operations

Research & Development Intern, SASOL

06/2022 – 07/2022

- Engineered and presented a functional solid surfactant package for spacer fluids project
- Facilitated the project to move to its next stage gate in the production process
- Worked both independently and in team settings holding status and interdepartmental consultations

Academic Experience

Teaching Assistant, University of Texas at Austin

08/2024 – Present

- Supervised undergraduate students in Engineering Communications by leading tutoring sessions
- Facilitated course efficiency through gradebook management & classroom communications

Graduate Research Assistant, University of Texas at Austin

08/2023 – 05/2024

- Appointed lab manager: implemented safety protocols, supervised quality control and maintained inventories
- Conducted experiments, analyzed data, and presented findings over the surfactant selection process for core flooding

SKILLS

- Trained in the Mass Spectrometer (MS) & Atomic Force Microscope (AFM)
- Kingdom Geoscience Software – Beginner Certification
- Enverus Certified Associate

ACCOMPLISHMENTS

Chair Elect, Sub-Committee Chemists with Disabilities, The American Chemical Society

2024 – Present

Committee Member, Committee Chemists with Disabilities, The American Chemical Society

2023 – Present

John and Mary Booker Endowed Graduate Fellowship Recipient

2024 – Present

Donald Chase Endowed Graduate Fellowship in Engineering Recipient

2023 – 2024