

Geomechanics Software Engineer

Expertise Transport Phenomena, Petroleum Engineering, Numerical Modeling, Software Development

Education M.S. (Petroleum Engineering), 2023
Texas A&M University, College Station, Texas, USA
B.S. (Chemical Engineering), 2019
Florida State University, Tallahassee, Florida, USA

Professional Affiliations Member: Society of Petroleum Engineers (SPE)

Professional Experience

2023 – Present ITASCA Minneapolis
Geomechanics Software Engineer
2020 – 2022 Texas A&M University, Petroleum Engineering, College Station, Texas
Teaching Assistant
2018 – 2018 Firmenich, Flavor and Fragrance, Princeton, New Jersey
Engineering Intern

Project Experience

Design, simulation, and estimation of horizontal well performance – Development of an approach to predict propped fracture geometry and flow rate from a multi-stage hydraulically fractured well.

Horizontal wellbore pressure drop analysis – Study of the effect of wellbore pressure losses on horizontal-well productivity. Proposed solutions and optimization of reservoir variables to maximize production rates.

Reservoir variable correlation project – Study to develop a correlation between reservoir permeability and well logs using non-parametric regression.

Predictive well production model – Study of machine learning algorithms and their effectiveness at predicting well production from a trained set of data.