

Callie Roberts

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SUMMARY

Senior Geophysicist with over 20 years managing seismic processing and imaging projects. Successfully led multi-disciplinary teams to execute large-scale programs, ensuring project objectives align with strategic goals. Skilled in defining KPIs, budgets, and leading technical reviews. Experience integrating machine learning methods into workflows for enhanced operational efficiency. Able to translate complex concepts into actionable strategies for clients and foster strong partnerships through dedicated client engagement. Passionate about mentoring peers to cultivate expertise within teams and promote innovative approaches in geophysical practices.

EXPERIENCE

Senior Geophysicist

January 2018 - Present

Geophysical Solutions

Dallas, TX

Oversaw execution of multi-workstream programs in seismic imaging and analysis. Responsible for managing extensive projects across various geophysical applications while coordinating cross-functional teams. Fostered innovation through deploying advanced modeling techniques.

- Spearheaded programs ensuring meticulous management of project scope, timelines, and budgets.
- Implemented novel technical strategies for earth model building, improving data interpretation precision.
- Guided team integration of ML/AI methodologies, optimizing processes and enhancing workflow efficiencies.
- Established clear milestones and KPIs to validate project success and ensure alignment with client expectations.
- Engaged directly with clients, transforming intricate technical details into executive-friendly strategies.
- Developed mentorship initiatives raising technical capabilities within the team around modern imaging practices.

Geophysicist

July 2010 - December 2017

Earth Sciences Corp

Houston, TX

Delivered technological advancements in seismic processing, addressing challenges posed by complex geological formations. Collaborated effectively with R&T teams to transition emerging solutions into production.

- Authored groundbreaking solutions that drove significant project successes in challenging geological settings.
- Partnered closely with teams driving prototypes to final product readiness, showcasing forward-focused technology.
- Conducted valuable workshops representing organizational leadership in industry forums, influencing service quality.
- Championed data-enhancing machine learning efforts, resulting in marked improvements in analysis performance.
- Steered governance risk management initiatives enhancing project oversight and delivery velocity.
- Active participant at sector conferences as thought leader promoting advancement in geophysical standards.

Junior Geophysicist

August 2005 - June 2010

Geoscience Innovations

San Antonio, TX

Assisted with developing impactful seismic models contributing to diverse oil and gas explorations. Supported data analysis initiatives to drive project objectives and achieve defined outcomes.

- Collaborated on the creation of seismic imaging techniques influencing deliverables across multiple projects.
- Played a key support role in data collection processes essential for advancing project goals.
- Teamed up with senior professionals in rigorous research activities, enhancing understanding of geological applications.
- Ensured adherence to strict budget constraints while identifying improvement areas during project lifecycle.
- Invested in knowledge growth through continuous learning opportunities and sector outcome-based training.
- Contributed comprehensive documentation ensuring clarity in all project-related communications.

LEADERSHIP & AWARDS

- SEG Outstanding Presentation Award, 2023
- EAGE Young Scientist Award, 2021

EDUCATION

Ph.D. in Geophysics

2005

University of Texas at Austin GPA: 4.0

Austin, TX

Coursework: Seismic Processing, Earth Model Building, Advanced Data Analysis, Machine Learning Techniques

CERTIFICATIONS

- PMP Certification 📅 2023
- Machine Learning for Geophysics 📅 2023

TECHNICAL SKILLS

- **Programming Languages:** Python, R, MATLAB
- **Geophysical Software:** OASIS montaj, Petrel, GMSYS
- **Imaging Techniques:** RTM, LS-RTM, FWI
- **Statistical Techniques:** Regression Analysis, Time Series Analysis, Interpolation Strategies
- **Cloud Computing Platforms:** AWS, Azure, Google Cloud
- **Data Processing Tools:** MATLAB, Python Scikit-learn, TensorFlow
- **Workflow Automation Tools:** Apache Airflow, Jenkins, Git
- **Visualization Tools:** Matplotlib, Seaborn, Tableau
- **Project Management Tools:** Asana, Trello, JIRA
- **Communication Tools:** Slack, Microsoft Teams, Zoom

SKILLS

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|------------------------|------------------------|--------------------------|----------------------------------|
| • Seismic Imaging | • Project Management | • Data Processing | • ML Integration |
| • Earth Model Building | • Technical Leadership | • Depth Imaging | • Data Engineering |
| • Machine Learning | • Client Relations | • Model Parameterization | • Risk Management |
| • Python | • Geophysical Software | • Uncertainty Framing | • Cross-Functional Collaboration |

PROFESSIONAL AFFILIATIONS

- Member, Society of Exploration Geophysicists (SEG)
- Volunteer, Geophysical Society of Houston

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST