Providing for today. Innovating for tomorrow.

INTEGRITY & TRUST • SERVANT LEADERSHIP • PEOPLE & PASSION • OPEN COMMUNICATION • COMMERCIAL FOCUS

WHO WE ARE – ADVANCED ANALYTICS & EMERGING TECHNOLOGY

AAET team members are creative and knowledgeable individuals. They use their insight, experience and the latest technologies to work with business partners to help execute the business strategy, support decisions and test new concepts.

Geoscientist + Engineer + Data Scientist + Dev Ops

Advanced Analytics

Armed with data, they have the ability to find hidden patterns and use storytelling skills to present conclusions and recommendations.

ANALYTICAL
Math & Statistics Knowledge
Data & Technology Skills
Subject-Matter Experts
Business Acumen

INSIGHTFUL
Problem Solving
Collaboration
Curiosity
Visualization

STRONG CULTURE
• Safety & Social Responsibility
• Deliver Objectives While Living Core Values
• Community Involvement

WORK ENVIRONMENT
• Open-Space Concept
• Collaboration Areas/Work Pods
• Game/Lounge Area
• Large Coffee Bar

AAET EXPERIENCE
• Technology Focus
• Social and Networking Events
• On-Going Training and Development Opportunities

Technical Expertise + Compute Power

Strong Culture

Advanced Analytics

Analytical Insightful
Our Vision: To accelerate the way Anadarko uses next-generation technology to execute our company goals.

Our job is to look at Anadarko’s corporate priorities and ask how we can make our technology work to deliver those goals. We think of this next-generation technology as an enabling mechanism that our people can use toward executing on our strategy.”

– AAET, VP Sanjay Paranji

THE ADVANCED ANALYTICS & EMERGING TECHNOLOGY TEAM

Data Scientist • Geoscientist • Engineers • Data & Development Operations

Deliver Insight • Develop Prototypes

Team Demographics

Team Members

50-Person Core Team

Project Portfolio

Platform Deployment

5 Domain Platforms
**ENGINEERING**
Our team combines multidisciplinary subject matter expertise in drilling, completions, reservoir and production engineering. Some of our projects include:

- Field development and campaign optimization
- Production surveillance and optimization through Internet of Things
- Next-generation reservoir characterization and forecasting
- Real-time drilling and completions analysis at scale
- Rapid prospect evaluation through data analytics

**GEOSCIENCE**
We investigate and leverage new technologies to reduce the time it takes to characterize a reservoir, accelerating the exploration, appraisal, development and production cycle. We develop:

- High-quality seismic interpretations, over a broad range of geological settings for machine-assisted fault and salt detection
- Workflows for machine-assisted tools that perform well log QC, reconstruction and top correlation
- Geoscience-driven tools for efficiently utilizing larger volumes of well log and seismic data

**DATA SCIENCE**
Geoscientists and engineers rely on us to deliver innovative solutions that support hydrocarbon resource exploration and production. Our projects involve:

- Real-time data analytics for field development and production optimization
- Data-driven, reduced-order modeling for reservoir estimation and prediction
- Geophysics characterization using computer vision
- Geology-grounded workflow automation and acceleration using machine and deep learning

**DEVELOPMENT OPERATIONS**
We work alongside engineers, geoscientists and data scientists to solve real, practical problems using the latest languages and tools. We support a rapidly evolving project portfolio by:

- Developing enterprise apps in Python, Kotlin, TypeScript and Go among others
- Leveraging technologies like Angular, Spring, Elasticsearch, MongoDB and Kubernetes
- Planning, developing and deploying end-to-end solutions to support growth for Anadarko’s strategic focus areas

**WORKING IN A DIFFERENT WAY**
**IN A COLLABORATIVE AND AGILE ENVIRONMENT**

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ENGINEERS
We provide early career engineers with development opportunities that improve integration into Anadarko, accelerate development and increase speed-to-proficiency through a defined roadmap. Past intern projects include:
• Fast uncertainty analysis for unconventional field development
• Reduced-order modeling for field development optimization
• Production and economic forecasting for campaign and field developments
• Data mining for drilling optimization

GEOScientISTS
We seek skilled and innovative geoscientists who are ready to tackle a vast array of subsurface geological problems, working side-by-side with our data scientists and engineers. Past intern projects include:
• Basin-scale evaluation of well logs, as well as core and facies classification, using statistical learning-based tools
• Application of supervised learning techniques to segment seismic volumes into probabilistic facies volumes
• Development of an automated waveform similarity algorithm to support exploration and reservoir development efforts

DATA SCIENTISTS
Our interns have backgrounds in computer science, mathematics, technology platforms and advanced analytics. Past intern projects include:
• Generation of synthetic geological images using generative adversarial networks (GANs)
• Seismic interpretation through deep convolutional neural network (DCNN) architectures
• Digital augmentation of geosteering with recursive algorithms
• Automatic generation of bad hole flags in well logs using a machine-learning approach

DEVELOPERS & OTHER DISCIPLINES
Our team is dedicated to keeping current with the latest technologies, and we actively shape the digital strategy for the company. Past intern projects include:
• Using Elasticsearch to improve decision making and speed up analysis in the Gulf of Mexico
• Building an Angular 6 module that will be used in many user interfaces to improve employee engagement
• Developing a real-time streaming application using MapR

“Working with AAET is truly a multidisciplinary experience. I’ve had the chance to work with some of the brightest minds in engineering, data science and the geosciences on some of Anadarko’s highest-impact projects.” — Engineering Intern

“I had to rely on the expertise of others, which meant my understanding of the problem would continuously evolve. This is the kind of environment that challenges my problem solving skills as a geoscientist.” — Geoscience Intern

“AAET provided me with great mentorship and a stimulating environment for research. The facilities available to me were state-of-the-art. The well-structured summer internship program and my wonderful colleagues made this a memorable experience.” — Data Science Intern

“The amount of responsibility I’ve been given so far in my project and the work I’ve been doing are amazing. I feel that I’m really contributing something to the company as a whole and that I’m not just doing busy work but rather I’m making a lasting impact on the company.” — IT Intern

ANADARKO’S AAET TEAM IS DIVERSE

www.anadarko.com/careers