



Analytical Engineer

ELIGIBILITY: Position requires access to export controlled and ITAR information. To conform to U.S. export control regulations, applicant should be eligible for any required authorizations from the U.S. Government.

Front End Analytics is a leading provider of enterprise predictive analytics solutions. We power our customers' digital transformation by providing novel solutions that use physics-based methods with machine learning (ML) & artificial intelligence (AI) techniques. Our solutions are used to power Product Design, Virtual Validation & Test, Manufacturing, and End Customer Product Use in Digital Twin applications such as Predictive Maintenance.

Front End Analytics is looking for an Analytical Engineers who will be responsible for technical activities associated with developing physics-based ML/AI solutions, product development, proofs of technology, and demonstrations. Our programs have high visibility, so candidates that have relevant industry experience in Automotive, Defense or Industrial Equipment will be preferred. Recent example successful solutions developed include physics informed predictive maintenance for powertrain systems, physics informed predictive classifier for sensor data anomaly detection.

Your Responsibilities

- Build production ready recommendation engines and own end-to-end data experience, including querying, aggregation, deep analysis, visualization and algorithms; communicate and present findings/actionable insights to audiences at varying levels of technical sophistication
- Formulate and test hypothesis; design, develop and apply statistics, modeling, optimization and machine learning techniques to create scalable solutions for predictive learning, personalization, content ranking, and recommendation
- Build physics-based surrogate models, and data products to deliver business insights
- Design, develop, maintain, and present demo applications of Front End Analytics products.
- Deliver technical deep-dives, demonstrations, and training as part of the engagement process.

Desired Skills

- Graduate degree in Science, Technology, Engineering or Mathematics (STEM), or comparable area of study.
- Experience with Physics based methods such as Computational Fluid Dynamics (CFD), structural analysis, numerical analysis, surrogate model development, Finite Element Analysis (FEA)
- Experience with Data Analytics: data modeling, machine learning, artificial intelligence, optimization algorithms.



Front End Analytics

Delivering Business Advantage

- Expert experience with compiled languages (e.g. C/C++), and scripting languages (e.g. Python, TF, Pytorch)
- Strong foundation in object-oriented programming (OOP).
- Strong verbal and written communication, and presentation skills.
- Experience with Git engineering workflows and collaboration.
- Strong work ethic, goal-oriented, attention to detail, and proven record of delivery.

Preferred

- Practical experience with machine learning and data science.
- Customer facing skills and experienced in customer facing projects.
- 1+ years of experience demonstrating software products and presenting technical deep-dives.

Benefits

- Medical Insurance
- Dental Insurance
- Vision Insurance
- 401(k) retirement savings plan
- Discount program
- Opportunity for advancement and development
- Paid Time Off
- Life Insurance
- Tuition Reimbursement
- Professional development assistance

We work on cutting-edge technology that is changing the world. This opportunity is for you to be a full time Employee of Front End Analytics with all our comprehensive benefits while working remotely in the US.

COMPANY PROFILE: Front End Analytics powers its customers' digital transformation by providing novel predictive solutions that use Physics-based Simulations and Predictive Analytics methods such as Machine Learning & AI. Our solutions are used in Product Design, Virtual Validation & Test, Manufacturing, Sales, and End Customer Product Use. Our customers experience dramatic increases in product development velocity, enhanced production throughput, increased sales, and optimized end customer experiences. For more information, visit our website at www.feasol.com.

TO APPLY: If you have the skills listed in the position and want to join a company at the leading edge of technology that is changing the world, we welcome your application. Send a cover letter and resume to careers@feasol.com with the job title in the subject line.

Front End Analytics LLC is an E-Verify and Equal Employment Opportunity Employer.