Scientific Programmer with Electrical Engineering/Physics

About this position:
As a Scientific Programmer, you will leverage your background in Electrical Engineering or Physics to drive the development of our high-volume energy data systems. This role focuses on utilizing your strong programming skills in Python to implement and optimize systems for near real-time, high-volume sensor data processing, enhancing the accuracy and efficiency of power value estimates from field devices.

About Yes Energy:
Yes Energy is a leader in power market data and provides innovative solutions to help traders, power companies, and asset managers and developers make sense of the complex, rapidly changing power market. Yes Energy provides robust, accurate and timely data, and comprehensive tools to help customers navigate the markets and make the right decisions every day. In January 2024, Yes Energy acquired TESLA, Inc including its local Romanian branch, TESLA Energy Forecasting (CEE) SRL.

Contact Information:
Please send CVs to Alexandru Budirinca, Regional Manager at alexandru.budirinca@yesenergy.com
Website: https://www.yesenergy.com/

The Programmer will have the following primary responsibilities:
- Design, develop, and implement software solutions to address key challenges in tracking and improving the performance/accuracy of power value estimates from field devices.
- Collaborate with cross-functional teams, including engineering and product development, to integrate sophisticated software solutions into our existing and new product lines.
- Utilize your knowledge of electrical engineering or physics to create innovative data analysis and simulation models that address specific challenges in energy measurement and calibration.
- Conduct robust data-driven research and apply statistical modeling and optimization techniques tailored to our technology and industry requirements.
- Visualize and report on data findings in a manner that is accessible to stakeholders at various levels, ensuring insights are actionable and comprehensible.
- Stay updated with the latest advancements in software development, data processing technologies, and industry-specific innovations to keep our solutions at the forefront of the field.

Key skills and competencies required to take on this role:
- Minimum 5 years of experience.
- Proficient (C2) level of English.
- Master's or Ph.D. in Data Science, Electrical Engineering, Physics, or a related field.
- Proven experience in data science, with a strong preference for candidates with relevant applications in electrical engineering or physics.
- Experience working on streaming ETL solutions utilizing streaming data processing tools.
- Expertise in statistical software (Python), numerical computational packages (Scilab) and database languages (e.g., SQL, Oracle).
- Strong knowledge of machine learning algorithms, statistical models, and data mining techniques.
- Demonstrated ability to translate complex data insights into actionable recommendations.
- Excellent problem-solving skills and creativity in developing new methodologies.
- Strong communication skills, with the ability to explain complex technical concepts to non-technical stakeholders.

Key skills and competencies that will be developed while in the role:
- Advanced real-time data processing skills, enhancing abilities to handle and analyze streaming data efficiently.
- Deepened domain knowledge in energy systems and sensor data applications, with a focus on calibration and accuracy improvements.
- User Experience (UX) Design: Ability to design intuitive and user-friendly interfaces for the calibration console.

Salary budget:
- Gross RON 298,000 – 330,000/year

Non-salary benefits:
- Unstructured paid time off (no predefined number of days)
- Flexible working schedule (3 WFH/2 days in the office)
- Wellness benefits (paid gym membership)
- Private health insurance
- Annual company-wide retreat in United States
- Investment in both formal and informal professional development
- Leadership training programs
- Office in downtown Bucharest