Senior Controls Software Engineer

Location: Arlington, VA (Flexible)

ABOUT FLUENCE

Fluence, a Siemens and AES company, is the leading global energy storage technology solutions and services company that combines the agility of a fast-growing technology company with the expertise, vision, and financial backing of two industry powerhouses. Building on the pioneering work of AES Energy Storage and Siemens energy storage, Fluence's goal is to create a more sustainable future by transforming the way we power our world. The company offers proven energy storage technology solutions designed to address the diverse needs and challenges of customers in a rapidly transforming energy landscape, providing design, delivery, and integration in over 160 countries. Fluence works closely with customers as trusted advisors throughout their journey and provides advisory, financing, and project lifecycle services.

Job Description

We are looking for a Senior Software Engineer with a passion for software design and extensive experience with MathWorks Simulink, Agile Scrum using Jira, and Git. Our Distributed Control System (DCS) is comprised of three main applications: Controls, UI, and the Data Acquisition System. You will report to the Director of Software Development. The DCS Controls Team will report to you. As a hands-on member of the Scrum Development Team, you will also do the work of delivering a potentially releasable Increment of product at the end of each Sprint.

Responsibilities

- Manage DCS Controls Team
- Provide supervision, oversight, and direction to DCS Controls Team.
- Coach, mentor, and develop People.
- Empower People to take responsibility for their jobs and goals.
- Foster a spirit of teamwork that allows for impersonal disagreement over ideas, conflict, and expeditious resolution.
- Development DCS Controls, integrating grid-scale battery and power conversion systems from industry-leading manufacturers.
- Focus on robustness, security, performance, scalability, and maintainability.
- Design, develop, build, and document DCS controls logic using MathWorks Simulink, Stateflow and C/C++.
- Meet project timelines and budget
- Track, manage, document, and report work using JIRA and Confluence.

Qualifications

Required

- Expertise using the Agile development framework.
- Expertise in MathWorks Simulink for model-based systems engineering, C/C++, and Linux
- Expertise in closed-loop control algorithms.
- Expertise in multiple Linux Deployment Environments (Ubuntu preferred).
- Strong knowledge of Git.
- Enthusiasm for getting things done, taking personal responsibility, adding value within a team setting, and ability to work with minimal supervision.

Preferred

- MS in Computer Science, Software Engineering, or Mathematics from an accredited university with 10+ years of work experience. Significant related work experience will be considered in place of a master's degree.
- Familiarity with industrial and/or power generation control systems is desirable.
- Experience with Power System Market Applications.
- Experience with Industrial Protocols: Modbus TCP, DNP3, IEC 61850.
- Willing and able to travel, domestically and internationally, up to 5% of the time.

GET IN TOUCH

Please send your resume and cover letter to careers@fluenceenergy.com

Fluence IS AN EQUAL OPPORTUNITY EMPLOYER and fully subscribes to the principles of Equal Employment Opportunity to ensure that all applicants and employees are considered for hire, promotion, and job status without regard to race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, marital or familial status.