

Software Engineer – Controls
Location: Arlington, VA

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 throughout their journey and provides advisory, financing, and project lifecycle services. We are currently looking for a Network and Security Engineer to join our team in our Arlington, VA HQ.

Job Description

We seek a software developer with a passion for software design and extensive experience with the Software Development Life Cycle (SLDC) and software version control. You will develop the Advancion® DCS, the Advancion® Digital Control System (DCS), focusing on robustness, security, performance, scalability and maintainability.

Responsibilities:

- Development of the Advancion® distributed control system, integrating grid scale battery and power conversion systems from industry leading manufacturers.
- Design, code, debug and fully document control logic for the Advancion® DCS and associated controllers and a wide variety of industrial equipment.
- Design develop and test Advancion® controls and application models in MathWorks Simulink, Stateflow, C on a Linux platform.
- Meet project timeline and budget while maintaining a learning environment that will improve capabilities for future larger scale deployments.

Qualifications

Required

- MA in Computer Science, Computer Programming, Engineering, or Mathematics from an accredited university with 10+ years of work experience. Significant related work experience will be considered in lieu of master's degree.
- Expertise in developing of MathWorks Simulink (not MATLAB scripting language) and Stateflow is required.
- Expertise in C/C++ on Linux platforms is required.
- Experience with Industrial Protocols: ModbusTCP, DNP3 and IEC 61850 required.
- Strong abstraction, algorithmic, software design, and programming skills.
- Demonstrated experience in full life-cycle software development.

Preferred

- Familiarity with industrial and/or power generation operational and control systems is desirable.
- Experience using Agile development methodologies.
- Expertise in multiple Linux Distributions (Ubuntu preferred).
- Working knowledge of Git, and bug/issue tracking tools such as JIRA.
- Experience with Extensible Markup Language (XML) is desirable
- Enthusiasm for getting things done, taking personal responsibility, adding value within a team setting, and ability to work with minimal supervision.
- Willing and able to travel, domestically and internationally, up to 5% of the time.

Qualified candidates are requested to submit a resume and cover letter at careers@fluenceenergy.com for consideration.

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, sexual orientation, marital or familial status.