

## Authentix Open Position

**Position Title:** Senior Systems Engineer

**Report to:** TBD

**Location:** Addison, TX

### **Position Overview and Definition:**

The Senior Systems Engineer (SSE) provides the business knowledge and technical skills to implement technical strategies, evaluate products and provide a superior level of technical support, which benefit Authentix.

The SSE supports Authentication solutions, based on custom optics, complex high-speed electronics, signal processing, challenging mechanical packaging, and highly-optimized image processing algorithms. The sensors detect and decode signatures generated by taggants and materials specifically designed for high security authentication applications.

The SSE will act as the technical project lead, with a broad range of tasks, including supporting initial proposals and feasibility studies, defining requirements, contributing to the creation of project schedules and budgets, and directing the members of a multi-disciplinary engineering team throughout the development process.

The SSE will be responsible for driving the technical aspects of development programs, from creating methodologies for selecting key technologies and evaluating architectural alternatives to defining targeted test strategies to identify root-cause for system performance issues and anomalies identified during verification and validation testing activities.

### **Functional Description:**

- Lead a team of engineers in the identification, modeling, analysis, architecture, integration, and management of complex systems and processes
- Perform feasibility testing related to new product concepts, including design of experiments, data collection, and data reduction
- Create technical documentation, including functional and refined requirements, theory of operations, etc.
- Contribute to the creation of project schedules and budgets
- Lead technical development activities from initial proposals and feasibility studies through system deployment
- Provide technical overview and project status updates to internal and external customers
- Investigate system anomalies and performance issues to establish root cause

### **Candidate Competencies:**

- Broad engineering background with experience working in a multi-disciplinary development environment
- Strong understanding of basic science (physics/chemistry)

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- Proficiency in design of experiments, test equipment set up, data analysis, failure analysis, etc.
- Experience defining and executing detailed test plans for complex systems
- Experience troubleshooting anomalous behaviors in complex systems
- Ability to work independently with little supervision
- Ability to clearly communicate with technicians, engineers, scientists, and managers to achieve goals with aggressive timelines
- Experience interacting with customers and handling highly confidential information
- High degree of organization and the ability to handle multiple simultaneous tasks

### ***Education and Experience:***

- Master of Science in Engineering, Mathematics, Applied Physics or equivalent
- 5-7 years minimum relevant experience
- Skilled with design, development, and analysis tools

### ***Additional Factors Resulting in Added Consideration:***

- Broad base of experience working with multi-disciplined development team
- Hardware and/or software development experience
- Working knowledge of optics, spectroscopy, electronics, optoelectronics, thermal modeling and material science
- Experience researching and preparing patent applications
- Ability to obtain a security clearance - optional

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