


<i>Job Description</i>		
<i>Title</i> Systems Engineer		
<b>Department</b> Bioinformatics	<b>Reports to: Department of Bioinformatics</b>	
	<b>Supervises: No</b>	
<i>Effective Date: December 21, 2017</i>	<i>Page: 1 of 2</i>	<b>FLSA: Exempt</b>

## Position Overview


Under the direction of the Department of Bioinformatics the Systems Engineer will make significant contributions to the automation of various laboratory processes and data workflows. This position is a hands-on position; he/she will be responsible for understanding, developing and integrating multiple software applications that collectively support complex research and clinical workflows necessary for the development of predictive clinical tests in oncology.

Adhering to GMP, ISO, and Quality Standards, the Systems Engineer will determine and conduct appropriate level of analysis and design as an integral part of the development process. He/she will design and implement integration solutions and services, periodically provide support for production systems, consult with product owners, identify current operating procedures, and clarify system design goals.

He/she will be part of a dynamic and fast paced software team and will have the opportunity to work with experts in a wide range of disciplines including biology, computational sciences, and translational medicine in tight knit cross-functional teams.

## Essential Job Functions

- Works closely with software engineers, lab staff, and computational scientists to identify and automate key workflow processes
- Designs, develops, integrates, and deploys server-side and system integration software and/or scripts
- Is hands-on and pro-active in gaining an understanding of lab instrumentation, processes and data workflows
- Makes recommendations for process improvements that will make a positive impact on the laboratory and analysis workflow
- Provides application support for testing, debugging and applying incremental improvements in working laboratory environments
- Develops scripts and processes to maintain and monitor the health of the lab automation processes
- Monitors data through the life cycle, including migration, archival and deletion
- Monitors and reports on system performance
- Working from user stories, task definitions, and technical specifications, implements code modules with appropriate unit tests
- Evaluates potential solutions, and coordinates technical implementation

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## Experience Requirements

- Demonstrable hands-on expertise with Microsoft systems including active directory, powershell, job scheduling is required
- Strong working understanding of virtual private network/s across multiple sites with cloud resources is required
- Strong understanding of relational database systems, SQL, and software testing methodologies is required
- Strong working knowledge of Linux is required
- A wide breadth of understanding of automation technologies is preferred
- Working experience with Python and relational databases (e.g. Postgres) preferred
- Experience with services, event viewer logs, share permissions, network analysis tools, and mail protocols (smtp) preferred
- Experience in the laboratory industry and/or with medical devices and equipment and LIS systems is desirable
- Knowledge of biological and/or clinical data is desirable
- Hands-on experience in programming using the API from multiple software systems is desirable

## Education Requirements

- A bachelor's or master's degree in computer science or related field with 2-3 years of experience in industry setting

## Knowledge, Skills, and Abilities (KSAs)

- Must be a self-starter
- Very strong interpersonal skills and a track record of success in team-oriented environments
- Excellent verbal and written communication skills
- Comfortable in a fast-paced small company environment with minimal direction and able to adjust workload based upon changing priorities
- Ability to analyze complex problems
- Ability to work after hours as needed
- Ability and willingness to travel occasionally

NOTE: This job description is not intended to be all-inclusive. Employee may perform other related duties as negotiated to meet the ongoing needs of the organization. Pierian Biosciences is an Equal Opportunity Employer with a strong commitment to the achievement of excellence and diversity.

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