


<b>Job Description</b>		
<b>Title</b> <b>Computational Scientist</b>		
<b>Department</b> Research and Development	<b>Reports to: Executive Vice President, Research and Development</b>	
	<b>Supervises: No</b>	
<b>Effective Date: October 2, 2017</b>	Page: 1 of 2	<b>FLSA: Exempt</b>

## Position Overview


Under the direction of the Executive Vice President, Research and Development (EVP, R&D), the Computational Scientist will collaborate with multiple functional areas to make significant contributions to Pierian Biosciences' research, development and clinical programs by bringing computational expertise to bear on development and application of state of the art proteomics platforms to the creation of clinically actionable information in oncology. You 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. You will be intellectually challenged and have an opportunity to participate in development of multiple predictive clinical diagnostic tests.

## Essential Job Functions

- Be the point person for various computational needs that arise on pre-clinical and clinical stage projects run by cross-functional teams consisting of research biologists, instrumentation experts, biostatisticians and clinical scientists
- In close collaboration with experimental scientists review and create experimental designs to answer complex questions related to biological, analytical and clinical parameters
- Understand complex biological phenomena that are relevant to characterization of disease of interest
- Design robust approaches to quantify biological signals that serve as inputs to predictive modeling of clinical outcomes
- Present objectives, rationale and characteristics of the quantification methods to non-computational audience
- Design and execute data processing workflows on various projects and use your programming skills to efficiently manage these workflows
- Understand recurring patterns for data processing steps and work with software engineers and lab scientists to create robust automation tools built into Pierian Biosciences' software systems
- Perform a variety of data analysis tasks ranging from discovering biomarkers, quantifying assay variance and developing multi-variate predictive models for clinical applications
- Contribute to development of study protocols, statistical analysis plans and reports
- Explore, evaluate, and implement novel approaches and data analysis methods for interpreting biological experiments and improving processes
- Present proposals and findings within and beyond your team ]

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## Education/Experience Requirements

- A PhD with strong background in computational biology, biostatistics, bioinformatics, computer science, data science or related field
- Experience in an industrial setting is a plus
- Knowledge of molecular and cellular biology and experience working with biological data
- Knowledge of statistical and machine learning techniques
- Proficiency with popular statistical packages such as R
- Proficiency with Python
- Understanding of database systems (e.g, Postgres)
- Proficiency in Microsoft Office tools
- Proficiency with Visual analytics tools like Tableau, Spotfire

## 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
- Ability to define data-driven solutions to complex scientific problems and a strong desire to find answers in the data
- Ability to multi-task in a fast-paced, dynamic environment
- 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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